



C & D

CHEMIST AND DRUGGIST

JANUARY 18 1969

***ending
January 31st***

**'Tyrozets'
bonus offer**

also 'Sucrets' bonus offer

There is still plenty of winter left after Jan 31st. So be sure to stock up with 'Tyrozets' before the bonus ends. See our representative or contact us on Hoddesdon 67123 while you can still make maximum profit on these quick-selling lozenges.

available only for chemists

® denotes registered trademark



Merck Sharp & Dohme Limited, Hoddesdon, Hertfordshire

401 pairs of satisfied hands in this box!



400 pairs of beautiful hands, the hands of satisfied owners coming back for more.

1 pair of busy hands – your hands – putting money in the till, helping sales to grow.

Barret offers your customers more than just ordinary hand cream. It has a unique Swiss formula – restores hands to natural health and loveliness, replaces oils, banishes winter roughness. Barret has other benefits too. A wonderful Beauty Book – 96 pages of beauty know-how by Jean Cleland, *free* for two empty cartons – a sure way of bringing your customers back. And a big new economy size (displayed above) which saves them almost a shilling!

Barret offers the trade even more. A big bonus on both sizes – 12 tubes for the price of 10 (over 47% profit on return exclusive of tax) – closing date 28th February.

Barret Hand Treatment keeps everyone happy. Order some *now*.

Barret

The unique Swiss hand treatment

Fulford Williams (International) Ltd.
Cornwall Road, Hatch End, Middlesex.

ANNOUNCEMENT

Gerhardt-Penick Products

Gerhardt-Penick Ltd. wish to announce that with effect from 1st January, 1969, the following products of Gerhardt-Penick Ltd. will be sold and distributed through all trade channels in the United Kingdom (except N. Ireland and Isle of Man) by

Eucryl Limited

Fresh'n Dainty – Deodorant Spray, Tissues, Powder & Liquid
Emko – Vaginal Foam Contraceptive
Tums – Indigestion Tablets
Dethmor – Rodenticides
Dethmor – Slugbait
Rinoxin – Rodenticides
Raticate – Specifically for rats
Pied Piper – Household Rodenticide
Dethlac – Insecticidal Laquer
Thram – Anti-Pecking Spray

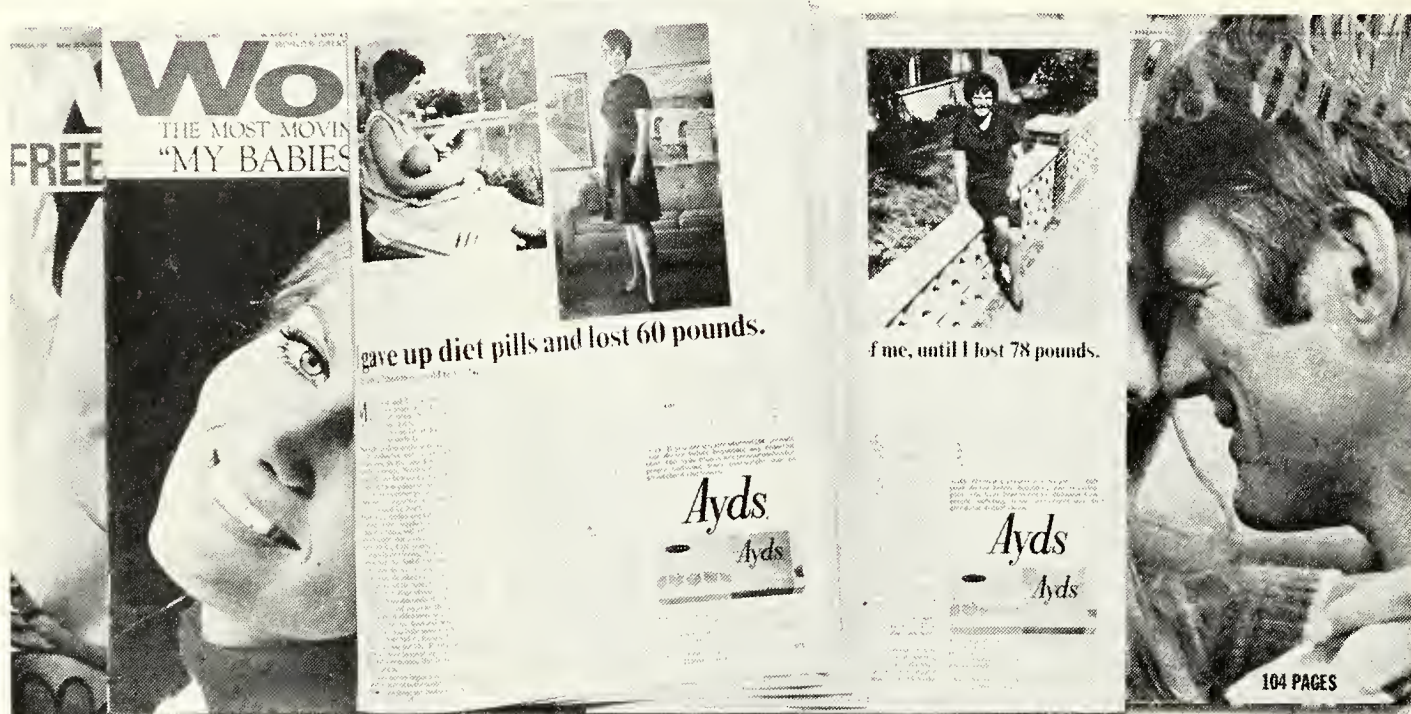
Orders for these products can be included with Eucryl products to qualify for discount terms and should be addressed to

Eucryl Limited, Oakley Road, Southampton, SO9 7AT

Orders received by Gerhardt-Penick Ltd. (and Richards & Appleby for Fresh'n Dainty products) after 1st January, 1969, will be forwarded to Eucryl Limited for execution.

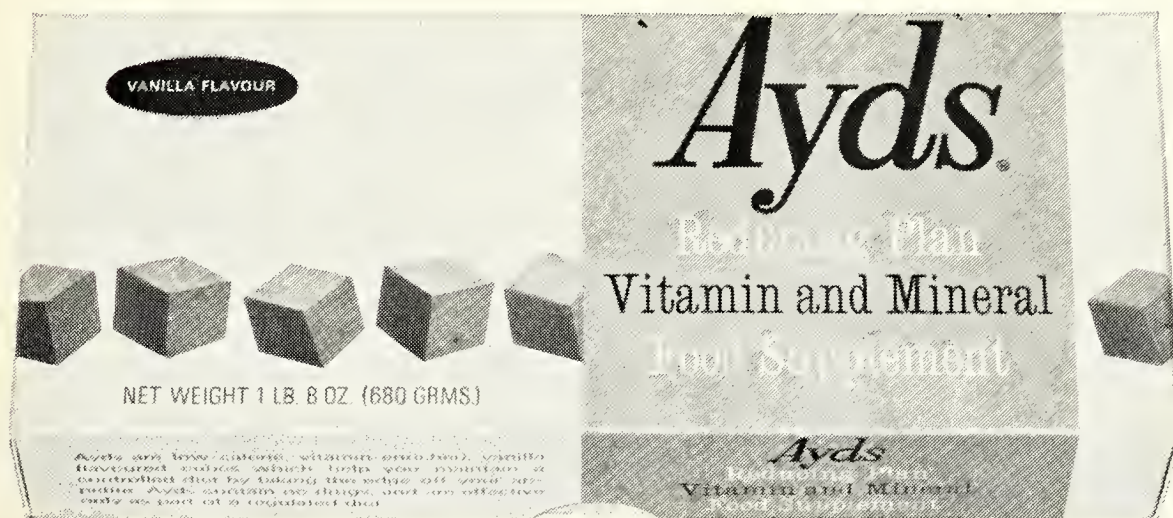
Ayds sell 200,000 boxes

You chemists must have done some selling—
after all they were our first six months.
Over 20 million Ayds cubes!



You've seen the ads that are creating this enormous
demand. In '69 they'll appear on whole pages in 14
top Women's Magazines. Often. Throughout the year,
starting in February. We're going to be even bigger.
Why not join us? Never be out of stock.

...In six months

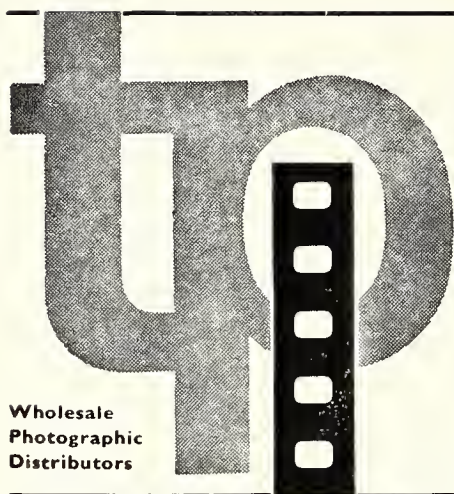


Ayds are those low-calorie, chewy cubes that reduce appetite naturally – no drugs, no methyl-cellulose, no laxatives. They're a vitamin and mineral supplement to a controlled diet – *available from chemists only*.
So safe! So efficient! So profitable!

Special New Year Bonus: up to 10/- off all cases of six ordered during January and February.

Contact your wholesaler now

AYDS DIVISION OF CUTICURA LABORATORIES LTD., MAIDENHEAD, BERKSHIRE



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Distributors

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GDT3 10" dia. £7-10-0
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Two Tier Stand to suit 40/-

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For joining Glass. Heights from 3' to 9'

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HERSOM, Kingston-upon-Thames



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Her Majesty the Queen
Contractors for
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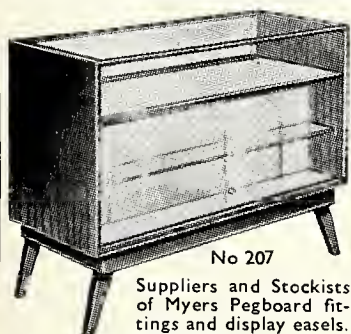
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No 207

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and display easels.

**MODERN COUNTERS
for DISPLAY & STOCK**

Ideal for photographic and
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12 Drawers at Rear of Counter
Doors of front showcase fitted
lock. Sapele or Light Oak Finish.
Black legs. 4ft. 0in. long 3ft. 0in.
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Parking Meters at rear of premises

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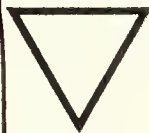
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*For expert advice on your problem —
post this coupon now!*



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Tel: 01-629 3601
Head Office & Factory:
Eldon Way, Hockley, Essex.
Tel: Hockley 2532 & 2662

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ELDON WAY, HOCKLEY, ESSEX.

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FOR THE ATTENTION OF

ADDRESS

C & D 1

Counterpoint are specialists in modernising pharmacy interiors and dispensaries.

The Equipment's ultra modern design gives the maximum visibility to all merchandise.

Craftsmen-made of superb quality and with a choice of both finish and colour.

Quick and economical to fit — all units are easily interchanged!





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SULPHATE	PAPAVERINE	SILVER PROTEIN
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phone: 01 997.9121

Will your manufacturing costs rise in the next 3 years?

Everyone else's may, but yours needn't — if you take advantage of the PHARMACAL concept of contract packaging!

PHARMACAL SUPPLIES will give you a manufacturing and packaging price for the job, **AND WILL GUARANTEE THAT THAT PRICE WILL REMAIN UNCHANGED FOR THE NEXT 3 YEARS!** Call it an insurance policy if you like. You contract with us to do your manufacturing and packaging for 3 years or some such period of time and, because we have the security of your contract, we can give you a realistic and competitive price that we **guarantee** will remain unchanged throughout the period of the contract. Makes sense really doesn't it? This way, rising manufacturing costs **can** be beaten and instead of prices up it's profits up!

Why not come over and discuss this thought with us? We have many, many years experience in the business, a superbly equipped factory with the most modern machinery, extensive new laboratories designed and built with the medicines bill specifically in mind, and you'll find a willingness amongst us here that **will** ensure you a real service on those tablet, liquid, cream or ointment runs.

If you've never even thought of contract packaging before, think about it now, seriously, and think about all the obvious benefits it could bring to you.

Pharmacal Supplies Ltd., Lincoln Way, Windmill Rd., Sunbury on Thames, Middx.

Telephone: Sunbury on Thames 87411

Dr. J. COLLIS BROWNE'S CHLORODYNE and **THE MEDICINES ACT 1968**

To avoid confusion with the official Tinctura Chlorof. et Morph. B.P.C. (synonym Chlorodyne) we have deleted the word "Chlorodyne" from our Dr. J. Collis Browne's Chlorodyne and, in its place, substituted the word "Compound". Our medicine therefore, from about the beginning of July, 1969, will be known as

J. COLLIS BROWNE'S COMPOUND

There is absolutely no change in formula, composition or method of manufacture.

When the relevant provision of the Medicines Act comes into force at a later date, all distributors, both wholesale and retail, will be notified by us and any remaining stocks labelled "Chlorodyne" will be withdrawn and exchanged but, until this time, both packs can be sold.

The public will be informed of this change of name by means of press and other advertisements and also by means of a slip attached to each bottle from now on as per example shown below.

In order to comply with a change in the law, the name of this century old medicine will be altered to:

J. COLLIS BROWNE'S COMPOUND

To obtain this preparation from July 1969, unchanged in any way remember . . . ask for

COLLIS BROWNE'S COMPOUND

J. T. DAVENPORT, LTD. Sole Manufacturers

Introducing

New effective oral theophylline without gastric irritation

LABOPHYLLINE

is now being actively promoted to doctors and pharmacists by mailings and announcements in the appropriate journals.

**See that you have
stocks available**

LABOPHYLLINE is a highly soluble combination of theophylline with lysine.

With this preparation the benefit to be expected from theophylline therapy in obstructive airway diseases and cardiac failure is now possible by the oral route without unpleasant gastric symptoms.

LABOPHYLLINE does not include ephedrine or similar substances which have undesirable side effects that should be avoided in patients with hypertensive heart disease, prostatic hypertrophy and glaucoma.

Available as tablets each containing:

Theophylline	100 mg
Lysine	80 mg

LABOPHYLLINE

clears airways obstruction



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91 AMHURST PARK, LONDON, N.16. Tel: 800 2252/3



you get a lot more than Glass from I.B.C.

...you get the benefit of over 50 years experience in supplying glass containers and fittings to the Pharmaceutical Industry and the Medical Service. Over the years we have attempted to build up a stock range of bottles and fittings to cover just about any requirement—whether it's a 1,000 or 100,000 bottles you need; in white, amber, blue or green soda glass; white or amber neutral glass (to B.P. and U.S.P.1 standards); injection vials, bungs and seals, dropper bottles

and fittings, all in a wide range of shapes and sizes.

We aim to give a service both comprehensive and immediate, and we believe that over the years we have learned how to do this. Give us a ring and try us out, we'll be happy to come along and discuss your particular requirement. If by chance we don't happen to have precisely what you have in mind—then we will willingly make it for you. It's all part of the I.B.C. service.



International Bottle COMPANY LIMITED

140, PARK LANE, LONDON W1. TELEPHONE MAYFAIR 6992 (5 LINES)

"THERMOS" COMPOSITE PACK

3 OF THESE !

Model 1818
"THERMOS" brand flasks—
suggested selling price 14/7
with TWO cups

3 OF THESE !

Model 18QH
"THERMOS" brand flasks—
suggested selling price 16/8
with TWO cups

3 OF THESE !

Model 18Q
"THERMOS" brand flasks—
suggested selling price 15/8
with TWO cups

8 OF THESE !

Model 18J
"THERMOS" brand flasks—
suggested selling price 8/10

20 OF THESE

Model 18
"THERMOS" brand flasks—
suggested selling price 9/-



THERMOS LIMITED Ongar Road, Brentwood, Essex Tel. Brentwood 3404-
The word "THERMOS" is a Registered Trademark

Bringing you £6-7-9 profit

ON AN OUTLAY OF ONLY
£12-12-10
(+ P.T.)



HOW YOUR PROFIT MOUNTS

List price: £17.14.10 (+P.T. £1.15.9)

Cost to retailer – less 25% – less 5% (excl. P.T.): £12.12.10.

Profit per composite pack: £5.2.0

PLUS free Model 67/1 Jug – retail value: £1.5.9

TOTAL PROFIT £6.7.9

FOUR ATTRACTIVE NEW COLOURS!

PLUS! Special Offer if you order Two!
On two composite packs – less 25% – less 10% – & **two** free jugs!

PLUS! MASSIVE ADVERTISING to help you sell in 1969!

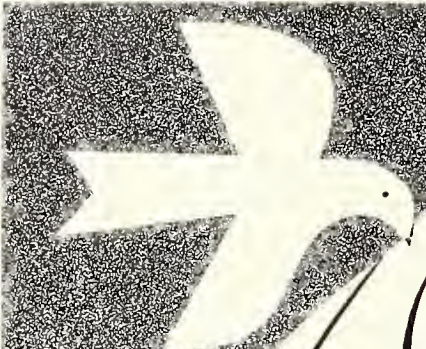
PLUS! The most famous name in vacuumware!

CONTACT YOUR WHOLESALER NOW

including
A FREE JUG
WORTH
25/9



Model 67/1
"THERMOS" brand Jug



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DIRECTORS: R. A. LAITMAN (U.S.A.) S. H. LAITMAN (U.S.A.) K. A. MAYER J. A. G. PAYNE W. L. PHEAN (MANAGING)

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YOUR REF
OUR REF

*For the attention
of all chemists*

Dear Sirs,

I am delighted to tell you that production of Aronde beauty products is now back to normal following the severe fire at our Isle of Wight factory.

May I remind you that all top-quality Aronde products are backed by strong, round-the-year advertising in the most popular national magazines - as well as by our display and show-cards in your shops.

To make sure you satisfy your customers' demands - stock up now and share in the profits.

Yours faithfully,
COLUMBIA PRODUCTS COMPANY LIMITED

Robert Halladey
Robert Halladey

aronde
is back!

Post this coupon now for a free test-sample of Aronde Beer Shampoo.

Name.....

Address.....

C&D18/1

COLUMBIA PRODUCTS CO. LTD., SHERBOURNE AVENUE, RYDE, ISLE OF WIGHT

If someone told you there was a *natural* product that contained protein to keep your body in good repair and your energy-level high;

Vitamin B to keep your nerves strong and your digestion

**All this advertising
and 2/- per case
Special Beecham Bonus**
(Bonus ends 28.2.69)



Bemax is that natural product. Pure wheat germ. The most nutritious part of the grain. Nothing added. Only starch removed.

Bemax is the richest natural protein-vitamin-mineral supplement known to man.

You sprinkle Bemax on your breakfast. It has a mild, nutty flavour that blends well with cereals and fruit.

Many people find they enjoy Bemax with other meals as well. Eat it when you wish. It can only do you good.

What will enjoy feeling and energy? And the your looks rest. Buy Bemax from your chemist. (Try it, you'll see what's good for you.) Hospitals and convalescence. It's good for you all the time. Bemax has been around for about 40 years. You'll be wondering why you haven't tried it before.

And the big-space advertising campaign continues—with unabated frequency—right through to the end of April. (Giving 15 million women the opportunity to see the current advertisement for Bemax at least 18 times.)

From your chemist. In 10oz and 20oz packs.

Wiz Set has grown up

WELLCOME INSTITUTE
LIBRARY

Coll.	WelMOMec
Coll.	
No.	



This is the continuing story of Wiz Set, the brand of hold heat rollers that was launched onto an unsuspecting market last year. Now Wiz Set has taken on a new look attractively packed in ten count acetate drums, (left) with a free take-home box for every customer. The drums are displayed in a new counter stand (right) in sets of six. Stock up with the grown-up Wiz Set packs now, and stand by the cash register.



newey
goodman

Newey Goodman Ltd.,
Robin Hood Lane,
Hall Green,
Birmingham.

COTTON WOOLS

in cartons from
ILLINGWORTHS



Smart polythene-wrapped blue and white packs. Modern looks, more convenience maximum hygiene. 1 oz., 4 oz., 16 oz., sizes. B.P.C. and Hospital Qualities.

Also in Rolls

Pleated in Polythene Bags

Bottle Neck Wool

Respirator & Filter Pads

Blended Wool

A high quality product of
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Tel: Bradford 676261-9 Grams: Illmond Bradford
Telex: 51632



CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical,
fine chemical, cosmetics, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and of the Pharmaceutical Society of Northern Ireland*

Volume 191

January 18, 1969

No. 4640

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which includes The Chemist and Druggist Year Book and
Buyers Guide, £5. Single copy 2s. 6d. (including postage).
Three years' subscription £10.



MEMBER OF THE AUDIT BUREAU OF CIRCULATION

©MORGAN-GRAMPIAN LIMITED, 1969

14 to the dozen

new Phillips Iron Tonic has three big selling features



Phillips Yeast Products have made a new Iron Tonic that you ought to stock right from the start. Here's why:—

1. It provides iron in the form least likely to cause constipation or stomach upsets.
2. It contains Vitamin C to aid iron absorption.
3. It's good value. 50 tablets for 2/3d. (trade price 20/- doz.); 100 for 3/9d. (33/4d. doz.).

And it's available only to chemists. Big advertising begins in women's magazines on February 22nd. And we're offering you 14 to the dozen on 1 doz. or more of the 2/3d. size: or on 1/2 doz. or more of the 3/9d. size.

Offer closes February 28th.

Quick. Complete the coupon and we'll rush your order to you.

Order Coupon

To: Phillips Yeast Products Ltd.
Park Royal Road · London · NW10
Tel · 01-965 7533.

Please send:

_____ doz. (50 tablet size)

_____ doz. (100 tablet size)

Phillips Iron Tonic at 14 to the dozen.

Name _____

Address _____



C&D

CHEMIST AND DRUGGIST

Volume 191

JANUARY 18, 1969

No. 4640

Drug Dependence

SUBCOMMITTEES SEEK INFORMATION

THE Home Secretary's Advisory Committee on Drug Dependence has appointed two subcommittees to inquire into aspects of the drug problem.

One of the subcommittees, under the chairmanship of Baroness Wootton of Abinger, is examining the medical, social and legal aspects of the use and misuse of amphetamine and similar central nervous system stimulant drugs, and completing a study of LSD begun by an earlier subcommittee. The other subcommittee, under the chairmanship of Mr. William Deedes, M.P., is reviewing the existing powers of arrest and search in relation to cannabis and other restricted drug offences. Both subcommittees invite written evidence from any interested persons which should be addressed to: The Joint Secretary, Advisory Committee on Drug Dependence, Room 313, Home Office, Romney House, Marsham Street, London, S.W.1.

Management Studies

THEIR IMPORTANCE TO CHEMISTS

HOW to interest the retail pharmacist, particularly the younger pharmacist, in management studies, and the vital need to bring home to them the importance of such studies, was one of the subjects discussed at the annual meeting of the Institute of Pharmacy Management on January 8. Mr. H. W. Tomski (director of the Institute), pointed out that, if the pharmacist-manager of the medium and large enterprise failed to learn management techniques and keep abreast of the times, he might find himself relegated to manager of the pharmaceutical department only and answerable to a pharmaceutically unqualified person. That had happened in the past, was still happening today and, with the growth of ever larger shops, could be expected to occur more frequently in the future. On another subject Mr. Tomski reminded members that in the past they had practised restraint in the use of the designatory letters (M.I.Pharm.M.) on facias, but young members saw no reason for that. The Institute's council would have to consider the question further, since the present restraint was, he believed, hampering the growth of the Institute. Mr. G. B. Green, Chelmsford, has been elected *Chairman* and Mr. T. G.

Booth, Bradford, *Vice-chairman* of the council. Elected to the council for the first time were Messrs. W. F. Scott, Blyth, Northumberland, and J. B. Thompson, Bournemouth.

Self-service Shops

CONTINUING GROWTH TREND

ALTHOUGH self-service shops have increased more than fivefold in the past ten years, authorities in the trade forecast that they will increase by 1980 from the present 23,000 to 30,000. So states a man-power study (No. 8, Food Retailing), carried out by the man-power research unit of the Department of Employment and Productivity (H.M. Stationery Office, 4s.). The study adds that the change-over to self-service will probably continue to be accompanied by a trend to larger shops which provide the conditions for higher turnover and productivity and are generally regarded as more profitable. That suggests, says the report, that the conversion is more likely among the medium and larger-sized counter-service shops and that closures are more possible among the smaller. For employers in large organisations, one of the more urgent tasks will be to ensure the recruitment and training of managers, since the traditional source, the counter-service side of the industry, is likely to become less able to produce enough potential branch managers of the kind and calibre increasingly required. Only a small minority of the shops in the survey were providing training courses: independent shops and small multiples, both counter- and self-service, rarely provided training courses of any kind.

Birth-control Methods

WIDE USE OF THE "PILL"

"IT is clear that, in the few years during which the oral contraceptive 'pill' has been available in the United Kingdom, it has been used by a considerable number of women, especially by those recently married," says a preliminary report on a national study of birth-control practice. The

study was undertaken by the Population Investigation Committee, whose report appeared in the January issue of *Family Planning*, journal of the Family Planning Association. There was evidence from the study that the "pill" had been used almost entirely for its contraceptive purposes, fewer than one in ten users saying they had done so "for medical reasons only." The author of the report says it is difficult to point to any unmistakable trends in the popularity of individual methods of birth control (the "pill" excepted) but the study showed an overall trend towards greater reliance on the more effective methods. Over 40 per cent. of women users of contraceptives married in 1966 or later had at some time used the "pill."

Banking Hours

MORE PROTESTS AT SATURDAY CLOSING

A CONSUMER Council survey of bank hours has shown that Saturday is the busiest day for cashing cheques or paying in money by private account holders. When the Council and other consumer organisations put the findings to representatives of the London clearing bankers, reiterating their objection to Saturday closing, the bankers said that recruitment problems left them with no alternative. Asked to state the best alternative to Saturday opening, the consumer organisations favoured late opening to 8 p.m. on one evening in the week, probably Friday, but decided on a local and flexible basis. The committee of London Clearing Banks has announced that bank opening hours will be extended on Mondays to Fridays to 9.30 a.m. to 3.30 p.m.



AGENT FOR HALF A CENTURY: Mr. M. Wandels (right) for fifty years agent for Smith Kendon, Ltd. (see p. 50) receives a silver salver from the company's chairman, Mr. D. A. L. Smith.

(instead of 10 a.m. to 3 p.m. as at present) when Saturday closing is introduced in England and Wales on July 1. Their proposal for late opening on one day a week (from 4.30 to 6.30 p.m.) is being discussed with bank employees' representatives.

Agricultural Chemicals

RECOMMENDATIONS FOR SAFE USE

THE Agricultural Departments have issued more "recommendations for safe use" in Great Britain for a number of compounds including:—Aminotriazole, fenuron, metobromuron, phenmedipham, sulfallate (herbicides); thiabendazole/cobalt sulphate and hygromycin B both for veterinary use; dichlofluanid, a fungicide for agricultural and horticultural use and home garden use; sulphur as a fungicide and acaricide, and bromophos as an insecticide and acaricide. Recommendations have also been issued for malathion (organophosphorus insecticide and acaricide), methyl bromide (soil fumigant), mercuric oxide (fungicide and acaricide), methyl bromide and gamma BHC (rodenticide). For food storage practice there are recommendations in respect of aluminium phosphate presented as powder formulations enclosed in crepe paper envelopes and used as insecticides for the disinfestations of bulk cereal grain.

Pharmaceutical Sciences

PROSPECTS FOR 1969 CONGRESS

MORE than 1,000 participants are expected at the 1969 International Congress of Pharmaceutical Sciences due to be held in London, September 8-12, according to Mr. J. C. Bloomfield (chairman of the London organising committee). In addition to the events already announced (see *C. & D.* January 11, p. 24) there will be an inaugural lecture by Professor F. G. Young (professor of biochemistry, University of Cambridge). On September 10 there will be a joint colloquium on "Purity of Drugs and Analysis." Personal communications during the week will be read in five divisions: pharmaceutical chemistry, pharmaceutical technology, control and analysis, pharmacognosy, and biology and pharmacology. Contributions must relate to original work; abstracts, of about 500 words, should be submitted before April 1 to Professor J. Polderman, Uhlenbekkade 4, Leiden, The Netherlands. Congress registration fees are as follows: Associate members of F.I.P., £18; non-associate members, £21; persons accompanying associate member, £18; other accompanying persons, £21. Further details and application forms are obtainable from the secretary of the London organising committee, Mr. E. L. Robins, 17 Bloomsbury Square, London, W.C.1, to whom application forms should be returned by July 1.

Ribbed Oval Bottles

NEW BRITISH STANDARD

RIBBED oval glass bottles of a new design, suitable for dispensing purposes, are specified in Part 7 to British Standard 1679, published by the British Standards Institution, 2 Park Street, London, W.1. The specification covers

sizes of 50, 100, 200, 300 and 500-mils capacity. Special efforts have been made to publish the standard in time to give manufacturers and retail pharmacists sufficient notice before the change to metric dispensing in March. Part 7 gives constructional requirements in metric but, to assist manufacturers during the transition to the metric system, they also appear in inch units. Copies of BS 1679, Part 7: 1968, may be obtained from the B.S.I. Sales Office, 101 Pentonville Road, London, N.1, price 6s. each (postage ninepence extra to non-subscribers).

Chemists' Retail Sales

BOARD OF TRADE STATISTICS

THE index of retail sales made by chemists and photographic dealers in November 1968 was 109 (average monthly sales in 1966=100). That was 7 per cent. above the corresponding figure for 1967. Information recently issued by the Board of Trade gives the following indices for the month (without allowance for contractors' receipts under the National Health Service).

Independent retailers	99 (+7 per cent.)
Multiple retailers	123 (+7 per cent.)
Co-operative Societies	105 (+2 per cent.)

IRISH NEWS

THE REPUBLIC

Powders Symposium

JOINT EVENT IN DUBLIN

A SYMPOSIUM on powders, organised jointly by the Pharmaceutical Society of Ireland and the Society of Cosmetic Chemists of Great Britain, is being held at Jury's hotel, Dublin, April 16-18. Eighteen papers are being presented. First will come a number on aspects of particle size. April 17 is being devoted to flow properties and the handling of powders, plus an account by L. St. J. Devlin (M. Atkins, Ltd., Cork) of the cosmetic industry of Ireland. The symposium concludes with papers on tableting, the assessment of powder mixtures, powder aerosols and the characteristics of powders influencing absorption. Fee is £18 for members of the organising societies, £21 for non-members. Details and registration forms may be obtained from the general secretary, Society of Cosmetic Chemists of Great Britain, 56 Kingsway, London, W.C.2. Closing date for registration is March 31.

IRISH BREVITIES

THE NORTH

THE annual ball of the Ulster Chemists' Association Associates' Section is being held at Dunadry Inn, Dunadry, at 9 p.m. on February 7.

PRESCRIPTIONS dispensed in Northern Ireland during October 1968 numbered 858,085 (584,687 forms). Total cost was £584,019, an average of 163.35d. per prescription.

THE Retail Alliance has arranged two meetings on decimalisation for retailers in Northern Ireland, on March 10 in Belfast and on March 11 in Londonderry. Tickets (price 10s. each) should be obtained from the

Secretary, N.P.U. Group, 321 Chase Road, London, N.14.

THE REPUBLIC

A SYMPOSIUM on medicines legislation is being held in the College of Pharmacy, Dublin, at 8 p.m. on January 20. Organisers are the Irish Pharmaceutical Association, whose president (Mr. E. Burrell) will be in the chair. Speakers include Mr. F. W. Adams (former secretary and registrar of the Pharmaceutical Society of Great Britain); Dr. John O'Connell (editor of *Mims*) and a representative of the Veterinary Association.

OVERSEAS NEWS

NEW ZEALAND

Schedule of "Safe" Manufacturers

THE New Zealand Health Department is compiling a list of manufacturers whose products are acceptable to it for payment from the Social Security Fund. According to a report in a recent issue of the *New Zealand Herald* drugs of manufacturers not included in the list would become a charge on the purchaser, whereas the equivalent product of an approved manufacturer would be subsidised by public funds. The department fears that some companies producing drugs after expiry of patent rights might produce an inferior drug which, since they would bear the official name of the original drug, could be widely used, possibly with harmful effects. An amendment to the Drug Tariff, expected to come into force on April 1 will limit payment for drugs to those manufactured by companies listed in a schedule.

Three Years at College from 1969

THE New Zealand Minister for Education has approved the introduction of a full-time three-year course in pharmacy at the Petoni School of Pharmacy in the north island. The country's other pharmacy school is at Dunedin (South island). Reporting the announcement, the *Australasian Journal of Pharmacy* (September) says the decision will bring pharmacy education in New Zealand into line for length, from February 1969, with courses in the Australian States and other countries. The *Pharmaceutical Journal of New Zealand* is quoted as saying that the standard of attainment would probably be that of a university degree.

INDIA

Industry's Problems

THE pharmaceutical industry in India finds itself in the grip of controls, restrictions and regulations that threaten to sap its vigour and dynamism, according to Mr. K. C. Roy (president, Organisation of Pharmaceutical Producers of India). Addressing a Press conference, Mr. Roy said that, despite the impressive record of growth and diversification in the industry in recent years, it was subjected to more controls and regulations than many other industries. He maintained that the price of medicines had been artificially pegged and results, he feared, would be totally unrealistic. As a result, producers might be forced to withdraw some essential drugs.

NEWS IN BRIEF

ABOUT 700 assorted tablets and capsules of drugs in the amphetamine group were recently stolen from the pharmacy of Mr. F. Durning, M.P.S., Baxtergate, Loughborough, Leics.

THE Pharmaceutical Whitley Council Committee C, which met on January 9, adjourned until a date in February in order to enable the results of the staffing survey to be made available to the Committee.

MR. ANTHONY CROSLAND (President of the Board of Trade) has received the Monopolies Commission's report on the practice of recommending resale prices. The report will be laid before Parliament and published "as soon as possible."

THE University of London Appointments Board, in conjunction with the Retail Trades Education Council, is running in March a three-day course for London University students giving an insight into career opportunities in wholesale and retail distribution.

THE medical profession's independent review body (chairman: Lord Kindersley), is to issue proposals shortly which, it is understood, will recommend a new level of remuneration 8 per cent. higher than now for National Health Service doctors and dentists.

THE Radiochemical Centre, Amersham, Bucks, has issued a data sheet and a technical bulletin on indium-113m generators, which may be used to incorporate indium-113m into compounds for use as scanning agents for liver, lung, brain, placenta and heart blood pool.

FROM January 1, 1970, the halfcrown is being deprived of its status as current coin, and legal tender. Withdrawal of the coins from circulation commences this month and, as previously stated (*C. & D.*, December 7, 1968, p. 525), banks are issuing pink bags to facilitate the operation.

THE executive council of the Union of Shop, Distributive and Allied Workers has issued a statement noting with regret the extent to which employers in the distributive trades generally failed to provide an additional third day of holiday at Christmas, as requested by the Union. A similar request will be pressed in 1969.

THE Department of Health and Social Security has issued two ECLs 60/67 giving comparative costs of antibiotics. No. 17/68 (oral antibiotics) gives costs for two general purpose oral penicillins and eleven broad spectrum antibiotics; No. 18/68 (solid and liquid antibiotics) covers six penicillin and nine other antibiotics.

LISTS of British and French pharmacists who wish to arrange holiday exchanges for their children are now being compiled in London and Paris. Members of the Pharmaceutical Society of Great Britain who wish to be included should obtain an application form from the Secretary, Franco-British Pharmaceutical Commission, 17 Bloomsbury Square, London, W.C.1, and return it by the end of February.

TOPICAL REFLECTIONS

By Xrayser

Influenza

With an early warning system that has worked with unrelenting vigour for some months, it would be surprising if there were not an air of great expectancy in the land concerning "Hong Kong" influenza. Reports suggest that the virus has made an appearance in Birmingham and London and that a few cases have been identified. We may or may not be on the verge of a serious epidemic, but the handling of the possibility seems to me to have been singularly maladroit. People considered as subject to risk have been advised to seek protection in the form of inoculation, and they have acted upon that advice by consulting their doctors and having prescriptions issued. All that was lacking was a supply of the vaccine, and pharmacists all over the country have attempted in vain to obtain the necessary supplies. There have followed a remarkable number of conflicting statements. We were told it was never intended that everybody should be immunised. Something had gone wrong with a batch of the material, and there would be delay. It would be ready for distribution in December—in January—in February. It had to be remembered, also, that inoculation did not guarantee immunity. In any case, the virus was not thought to be particularly virulent, and that people in this land of hope and glory were not likely to be badly affected if they got the infection. "If you do succumb—to the infection that is—go to bed and stay there for two or three days—don't bother your doctor; you may be keeping him from more serious cases." Like Omar, I have heard great argument about it and about, and I sympathise with him in his complaint about the door, I hope we may escape a serious epidemic, but I cannot feel that the long series of conflicting statements has been helpful. Expediency generally lacks consistency. When the humble potato was scarce during the war we were told that it was not good for us. A year or two later, with a glut of potatoes on our hands, it was suddenly elevated to the exalted position of one of our finest foods, necessary for a balanced diet. I cannot avoid the feeling that too much has been publicly stated about H.K. virus.

Cannabis

I have been long enough in pharmacy to remember the placing of cannabis among the substances controlled by the Dangerous Drugs Act. The restriction resulted in the virtual disappearance of cannabis tincture and extract, though they lingered for some years in some preparations, notably in corn paint and corn plasters. There was, in my earlier days, an occasional mixture containing the tincture, and that provided opportunity for a homily on how to treat resinous tinctures according to the art of the apothecary. In my experience there was no abuse of the substance, and its control in this country was governed largely by international agreement. I agree with your editorial comment on the report of the "Wootton" committee (p. 33). If that body decides that cannabis should not be legalised yet; that its use should continue to be discouraged by law; and that it thinks that records of prescriptions should be kept as for D.D.A., then in effect the report does little to alter the present situation except in the matter of penalties. There may be some ground for recommending less severe penalties. We do not, after all, hang men for sheep-stealing or banish them to the Colonies for taking a loaf of bread without paying for it. But that is a matter for the sociologist. There are many experienced professional people who do not favour relaxation, and until the substance is proved harmless by tests over a prolonged period, there seems to be little to be gained by minimising the potential danger. The committee stresses that long-term consumption of cannabis in *moderate* doses has no harmful effects. What is moderate? And how does it stay there?

Take Thou

"I don't require to sign the back of the form" was the reply to the customary request. "That is a special form for people like me." I was aware of the proposal for special forms but had not been informed of any change. "What," I asked, "is special about it?" He pointed triumphantly to the symbol "R." "It means retired," he said.

IRISH DRUG ASSOCIATION

Guidance sought on metrication and decimalisation

THE Committee of the Irish Drug Association, at its monthly meeting in Dublin on January 9, decided to ask the Department of Industry and Commerce to issue guidance on the pending change from imperial to metric measures.

The Committee noted that, while the Department of Finance had established an Irish Decimal Currency Board and had issued a brochure explaining the new system, no guidance had been given by the Department of Industry and Commerce on the changes that would apply to weights and measures. It was felt imperative to obtain official guidance at an early date owing to the change-over from the imperial system in Britain in March.

After considering complaints of a shortage of Hong Kong 'flu vaccine the Committee took the view that pharmacists should co-operate with the manufacturers who had explained that the shortage was due to exceptional world demand.

It was decided to urge members to place more advertisements in the Committee's new price list. Production costs, it was pointed out, had almost doubled in the past few years.

The Federation of Trades Associations was asked to protest against the system the Government had introduced for collecting the increased wholesale tax, especially its retrospective aspect.

The Committee considered the report of a meeting between the Association and the employees' union con-

cerning the proposed increase in wages and shorter working week. Before any proposals could be placed before members a further meeting with the union would have to be held.

Study Group

A study group is being set up to examine possible repercussions in the Republic of the United Kingdom Medicines Act, 1968. The Pharmaceutical Society of Ireland is being asked to co-operate in informing the group.

The Committee regarded as valuable, seminars on management matters for pharmacists, organised in conjunction with the Association by the Irish Management Institute. That only one course was being held in early 1969, was noted, and the Committee agreed that the Institute should be encouraged to promote more such specialised courses in 1970.

THE SECRETARY (Mr. B. R. Smith) reported that the first of a series of one-day courses on sales management was being held in Cork on January 22. It was proposed that similar courses would be held in about thirty towns by the Irish Management Productivity Committee in the next twelve months.

On the proposed decimal system the Committee decided to forward an explanatory circular to each member. In regard to repercussions from the introduction of the increased wholesale tax a meeting with the Irish Chemists' Cosmetics Association was decided upon.

BUSINESS CHANGES

SQUIRE'S DISPENSING CHEMISTS, LTD., 80 Conran Street, Harpurhey, Manchester, 9, have closed down.

COMPASS CHEMICALS, announce that, from the middle of the month their entire range of disinfectants, antiseptics, and hygiene products will be manufactured at Rockingham Works, Avonmouth. At the same time, all sales and commercial departments will be relocated in new offices at: Cornwall House, The Promenade, Bristol, BS8 3LZ.

UOP FRAGRANCES has been formed to combine the various operating units formerly known as Antoine Chiris (in London, Grasse, Paris, New York, Sao Paulo and Buenos Aires); Fleuroma (in New York); De Trevis (in Colombes and Meru, France); E.M.A. (at Imperia, Italy) and the other operations located in Germany, Belgium, Spain, Morocco and Mexico. Effective February 1, UOP Fragrances, Ltd., Epsom and Tadworth will be the new name for the subsidiary previously called Antoine Chiris, Ltd.

BUTLER & CRISPE WHOLESALE CHEMISTS, LTD., has been sold by Clerkenwell Chemists, Ltd., (formerly Butler & Crispe, Ltd.) to Vab Products, Ltd., — a public company with a quotation on the London Stock Exchange. Their intention is to develop Butler & Crispe Wholesale

Chemists, Ltd., in their traditional trade of wholesale chemists and on January 18 stock in trade will be moved from Clerkenwell Road to 1 Glyn Street, London, S.E.11 (telephone: 01-735 9494). Last dispatches of goods will be made on January 17 from Clerkenwell and the first from Glyn Street on January 21.

[Vab Products, Ltd., an industrial holding company, have factories manufacturing buttons and scissors at Penge and Sheffield. They have one trading company — Wholesale Trading Supplies, Ltd., which operates from the Glyn Street address.—EDITOR.]

R. WESTON (CHEMISTS), LTD., state that from February 1 all the undermentioned businesses will become branches of R. Weston (Chemists), Ltd.:— The thirty branches of Arnold M. Gee, Ltd., at 70 Herbert Road and 6 The Slade, S.E.18; 204 Merton Road, S.W.18; 220 Algernon Road, S.E.13; 310 Clapham Road, S.W.9; 31 High Street, S.W.4; 169 Brockley Road, S.E.4; 240 High Street, S.W.19; 5 Maddock Way, S.E.17; 132 Peascod Street and 83 Dedworth Road, Windsor; 14 Crossway, Bracknell; 107 High Street, Slough; 43 St. Peter's Court, Chalfont St. Peter; 9 Money Hill Parade and 135 High Street, Rickmansworth; 3 The Parade Yateley; 11 The Parade, Frimley; 2 Ruxley Parade, Ewell; 513 London Road, North Cheam; 13 High

Street, Cobham; 92 Turners Hill, Cheshunt; 40 Parton Road, Aylesbury; 12 West Side Centre, Luton; East Street, Farnham; Stocklund Square, Cranleigh; 9 Chelsea House, Basingstoke Town Centre; 13 Commercial Road, Totton, Southampton; 75 Stoney Lane, Weeke, Winchester and 27 Market Place, Andover, who will trade as "Westons Chemists"; the eleven branches of Philadelphus Jeyes, Ltd., at 6 The Drapery, 4 Kingsley Park Terrace and 227 Wellingborough Road, Northampton; 32 High Street, Daventry; 5 Regent Street, Rugby; 102 Watling Street East, Towcester; Church Square, Market Harborough; 19 Market Place, Biggleswade; 7 West Arcade, Bedford; Horsley Road, Kingsthorpe, Northampton and Double Street, Spalding, all trading as "Philadelphus Jeyes"; D. McKinnell, Ltd., 6 Wood Hill, Northampton, trading as "D. McKinnell," and Woods Pharmacy, Ltd., 50 High Street, Windsor, trading as "Woods Pharmacy."

Board

T. J. SMITH & NEPHEW, LTD.—Mr. T. M. Rankin, M.P.S. (previously works director) has been appointed director and general manager and Mr. P. D. Waine, B.Pharm., M.P.S., has been appointed to the board as works director.

HICKSON & WELCH (HOLDINGS), LTD.—Messrs. D. E. Webb and R. A. Clark have resigned from the board; Dr. D. A. Adams, and Messrs E. A. S. Price and P. M. Shaw have been appointed directors.

UNICHEM, LTD.—Mr. Gordon Smith has been appointed managing director and Mr. Geoffrey J. White, general manager and director, with special responsibilities for development, operations and commercial functions, with effect from January 16.

SMITH KLINE & FRENCH LABORATORIES, LTD., have elected Dr. W. A. M. Duncan, Ph.D., B.Sc., to the board with effect from January 13. Dr. Duncan joined the Company in September 1964 as head of the biochemistry department and in May 1968 was appointed director of the company's research institute which position he retains.

Executives

BUSH BOAKE ALLEN, LTD., have appointed Mr. J. R. Blanchfield, B.Sc., A.R.C.S., F.R.I.C., their food applications manager.

SANDOZ PRODUCTS, LTD. have appointed Mr. D. R. Badham, F.P.S., company training officer of their pharmaceutical and dyestuffs-chemical divisions. Mr. A. Pughe Jones, F.P.S., has been appointed assistant training officer with primary responsibility for medical representative training.

DISTA PRODUCTS, LTD., have made the following appointments:—Messrs. R. Grasham, B.Sc., A.R.I.C., director, pharmaceutical production; C. W. Goudge, A.C.A., company secretary. D. Palmer, B.Sc., A.R.I.C., director, technical operations, and J. F. Thorley, B.Sc., A.M.I.Chem.E., director, bulk production.

N.P.U. MARKETING, LTD., have appointed Messrs. L. B. Jack and D. L. Barnes, area sales managers.

Representatives

WHITE LABORATORIES, LTD., (Meggeson-Warrick division) announce the retirement of Mr. K. Michael, their wholesale representative. His calls will be covered in future by the retail representative servicing each area.

THERMOS, LTD., have appointed the following new sales representatives: Mr. J. J. Morgan (for South Wales); I. E. Kirk (Yorkshire); Mr. J. A. Mills (Worcestershire, Warwickshire and part of Staffordshire); and Mr. C. Preece (West Lancashire, including Liverpool).

COMPANY NEWS

Previous year's figures in parentheses

HODDERS, LTD. — The Stanley Weston Group, Ltd., offers to acquire the issued share capital of Hodders, Ltd. (C. & D., November 23, 1968, p. 484), have been declared unconditional and remain open for acceptance until further notice. In order to facilitate the integration of the two companies it has been decided to alter their respective year ends to January 31, 1969.

N.V. CHEMISCHE FABRIEK NAARDEN, Holland. — An interim report discloses the disposal of Naarden's interest in Naarden-Kemi, to new owners, whose registered offices are situated in France, but who wish to remain anonymous at this stage. N.V. Lenderink (Hyfoama), Schiedam and Leepen & Co., Bologna (now operating under the name Naarden-Leepen S.p.A.) have been acquired. The acquisitions together involved a share issue of Fl. 1,485,000 at nominal value, bringing the ordinary share capital to Fl. 12,617,400. A new subsidiary, Naarden-Indonesia — a joint venture with the Mantrust concern in that country — has been established. Consolidated turnover in 1968 from which sales by Naarden-Kemi have now been eliminated, is at approximately the 1967 level.

PERSONALITIES

SIR HARRY JEPHCOTT (president of Glaxo Group, Ltd.) was seventy-eight on January 15.

SIR FREDERICK BAWDEN, F.R.S. (director, Rothamsted Experimental Station), has been elected *President* of the Institute of Biology for 1969 in succession to Mr. H. J. Bunker.

MR. F. B. HESSIAN, M.P.S., superintendent chemist of the Birmingham Co-operative Society's chemist and drugs department for the past nine years, retired on January 6. Mr. Hessian commenced his service with the Birmingham Co-operative Society in 1949 as manager of one of the Society's

pharmacy branches. Later he was transferred to become manager of another, at which he remained for five years, before being appointed assistant departmental manager. When, in 1960, he became superintendent chemist, he was in control of all the Society's chemist and drugs branches, warehouses and the optical department of the Society.

DEATHS

ARMSTRONG. — Recently, Mr. William Armstrong, M.P.S., Downsfield, Penfold Way, Steyning, Sussex. Mr. Armstrong qualified in 1922.

BAINES. — Recently, Lieutenant-Colonel Frank Baines, M.C., T.D., M.P.S., 14 Southport Road, Chorley, Lancs, aged seventy-two. Col. Baines qualified in 1920.

BERRY. — On January 9, after a long illness Mr. Edgar Berry, M.Sc., F.P.S., A.R.I.C., 12 Church Avenue, Hyde, Ches, aged seventy-eight. Mr. Berry qualified as a pharmacist in 1912. He joined Evans Lescher & Webb, Ltd., as a research chemist at Runcorn and later was managing director of Wm. Mather, Ltd., plaster manufacturers. In later years he owned a pharmacy in Longside, Manchester.

BETTS. — On December 25, 1968, Mr. John Betts, Old Walls, Salvington Road, Durrington, Sussex. Mr. Betts qualified in 1923 and retired from the Register in 1958.

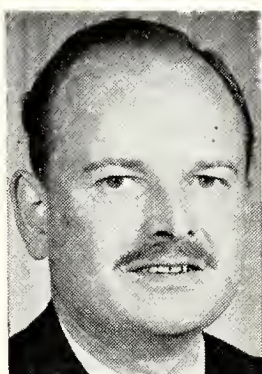
CASTLE. — On December 25, 1968, Mr. Ernest Castle, F.P.S., Glen Roy, Dundererry, Torpoint, Cornwall. Mr. Castle qualified in 1906.

CHADWICK. — On December 17, 1968, Mr. Samuel Edwin Chadwick, M.P.S., 5 Langbury Close, Ferring-on-Sea, Sussex. Mr. Chadwick qualified in 1915.

CREASEY. — On December 19, 1968, Mr. Jesse Creasey, F.P.S., 57 Loampit Hill, Lewisham, London, S.E.13. Mr. Creasey qualified in 1910.

DAWSON. — On December 16, 1968, Mr. Clifford Dawson, M.P.S., 4 Milford Grove, Gomersal, Yorks. Mr. Dawson qualified in 1933.

DAMMERS. — On January 10, Mr. Humphrey Dammers, aged forty-seven.



Mr. Dammers recently resigned as marketing manager of Gillette (U.K.) for health reasons, but continued to act in a part-time consultancy capacity. Following distinguished war service, he joined the Warner-Lambert group of companies and became advertising manager. He worked for the group for twenty-one years, eventually becoming marketing director in charge of the toiletries division. Later he joined the Toni Co. as marketing manager and was shortly afterwards made responsible for all Gillette group consumer products.

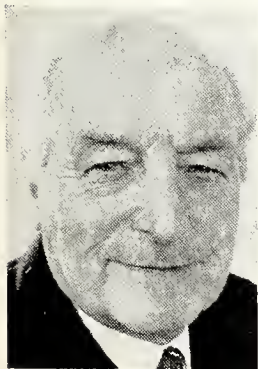
FARRANT. — On January 11, Mr. Edwin Ernest Farrant, M.P.S., Blue Waters, Hennapyn Road, Torquay, aged seventy-three. Mr. Farrant qualified in 1920 and was appointed managing director of Macarthys, Ltd., Romford, in 1924, a post he filled until 1960 when he became chairman. Mr. Farrant retired in September 1965. He was founder chairman of the Romford Branch, Pharmaceutical Society and had served as chairman of the Essex Pharmaceutical Committee and as a pharmacist-member of the Essex Executive Council. Mr. Farrant is survived by his widow, a daughter and a son, Dr. John Farrant, who is engaged in research work at the Medical Research Council.



Mr. K. Holland writes: Mr. Farrant was very well liked and respected by all the many Essex pharmacists who knew him during his half a century of service to the profession. As chairman of the old National Health Insurance Pharmaceutical Committee for Essex, and of its successor under N.H.S., and a member of the National Health Service Executive Council for Essex from its inception, he worked tirelessly and well for the interests of retail pharmacists in the county. Although he could be impatient with anyone that he suspected of humbug or "double think," he would go to endless trouble to help a contractor who experienced difficulties with N.H.S. matters. He was a tireless champion of pharmacy in discussions with politicians and representatives of other professions on the Executive Council, and, largely through his efforts, the relationship of pharmacists with both the public and the medical profession in the area have always been of the best. The Romford and District Branch of the Pharmaceutical Society will particularly mourn his passing since he was its founder chairman and a prime mover in bringing this successful branch into existence. Last, but not least, he was very much responsible for the emergence of Macarthys, Ltd., as a leading distributor of both pharmaceutical and surgical products. Always a hard worker himself, he encouraged all those under him to give of their best by the power of example and by the exercise of strong and just leadership. As a wise counsellor, a loved colleague and a good friend he will always hold a special place in my heart of honour and affection.

FORDYCE. — Recently, Mr. Harry Fordyce, F.P.S., 42 Waterloo Road, Blyth, Northumberland, aged seventy-four. Mr. Fordyce qualified in 1911.

FOX. — On January 5, Mr. Victor Fox, joint managing director, Regent Laboratories, Ltd. Mr. Fox was previously with Medopharma, Ltd., now



part of Regent Laboratories, Ltd.

HOLDING.—Recently, Mr. Edwin Norman Holding, M.P.S., 6 Dulwich Court, Kings Avenue, Holland-on-Sea, Essex. Mr. Holding qualified in 1922.

JOHN.—On December 27, 1968, Mr. Leslie Charles John, M.P.S., Berwyn, Llwydcoed, Aberdare, Glamorgan. Mr. John qualified in 1940.

JONES.—On December 12, 1968, Mr. Robert Ward Jones, M.P.S., 41 Friars Avenue, London, N.20. Mr. Jones qualified in 1902.

MARGETTS.—On December 23, 1968, Mr. Russell Redvers Margetts, M.P.S., 2 Halberton Drive, West Bridgford, Nottingham. Mr. Margetts qualified in 1922.

MOODIE.—Recently, Mr. James Falknor Moodie, M.P.S. Floreat, Enfield Road, Ash Vale, nr. Aldershot, Hants, aged fifty-nine. Mr. Moodie qualified in 1932. Mr. Moodie was senior manager of E. Moss, Ltd., and completed nearly thirty-three years' service with the company as branch manager at Feltham, Staines, and Guildford.

MORRISON.—On December 17, 1968, Mr. James William Morrison, M.P.S., 51 Studland Road, Hall Green, Birmingham, 28. Mr. Morrison qualified in 1927.

MURPHY.—On January 3, Miss Kathleen Murphy, M.P.S.I., Medical Hall, Swords, co. Dublin, Eire. A native of Fenagh, co. Leitrim, Miss Murphy qualified as a pharmacist in 1931.

PELLOW.—In Middlesex Hospital, London, on January 11, Mr. Howard James Pellow, M.P.S., c/o 50 Wigmore Street, London, W.1., aged eighty-eight. Mr. Pellow collapsed while at work about a week before being admitted to hospital. He qualified in 1905 and shortly afterwards moved to the Continent, working in pharmacies in Rome and the South of France. He started in business on his own account at Eastbourne before the 1914-18 war, and remained there until joining John Bell & Croyden as night manager of the Wigmore Street pharmacy early in 1937, transferring to day-duty about twenty years ago.

A former colleague writes: Many doctors and hospitals and retail pharmacists must have had reason at one time or another to be grateful to Mr. Pellow for arranging for the dispatch of urgent medicines, dressings and surgical instruments during out-of-business hours, particularly during the 1939-45 war. If ever a man deserved a decoration for gallantry and service it was "Jimmy" Pellow. Although surrounded by large glass windows he never sought the air-raid shelter during the heaviest of regular nightly air raids, but remained at his bench dispensing medicines so that they were ready for collection or post first thing in the morning. The kindest and most helpful of men, Mr. Pellow will be greatly missed by all who knew him.

PLATTIN.—On December 26, 1968, Mr. Spencer Howard Platin, M.P.S., 101 Middleton Boulevard, Wollaton Park, Nottingham. Mr. Platin qualified in 1903. He was for forty-five years

in business in Nottingham, retiring in 1948.

WATSON.—On December 23, 1968, Miss Margaret Winifred Watson, M.P.S., Hillcrest, Cleator Moor, Cumberland. Miss Watson qualified in 1918.

WRAY.—On December 16, 1968, Mr. Frederick William Wray, M.P.S., 2 Westfield Avenue, Armley, Leeds, 12. Mr. Wray qualified in 1928.

INQUESTS

Danger in Decimal Points.—A two-week old baby died because a doctor put a decimal point in the wrong place thus prescribing ten times the drug dosage required. That was stated at the inquest in Sheffield on January 14 on David Watkin, Conisbrough, near Doncaster, who died in Sheffield children's hospital on December 27, 1968. The coroner (Dr. Herbert Pilling) recorded a verdict of accidental death, adding that the baby died as a result of a miscalculation of a dose of digoxin. He said: "I feel very strongly that in calculating drugs it would be much simpler to use small denominations when one can deal in whole numbers. I think more wider use should be made of microgrammes, particularly in the case of digoxin. I will write to the Committee on the Safety of Drugs on this point and see if we can get anything done about it."

MANUFACTURERS' ACTIVITIES

Seeing Her Prize Made.—Mrs. Jean Joinson, one of the winners in the recent Ovaltine "Key to Happier Living" competition, was invited to see her prize, a Keymatic washing machine, being made at the factory of Hoover, Ltd., at Merthyr Tydfil, South Wales.

Razors for Cricketing Tourists.—England's cricketers who leave London on January 21 will be shaving with Techmatic razors throughout their tour of Pakistan and Ceylon, for each of the sixteen players and the tour manager have been presented with a Techmatic and supply of Foamy aerosol shaving cream by Gillette Industries, Ltd., Isleworth, Middlesex.

Agent's Fifty Years' Service.—Smith Kendon, Ltd., 132 Borough High Street, London, S.E.1, who have been exporting their products to Belgium since 1919 recently honoured their

agent there for his fifty years' unbroken service. The agent, Mr. M. Wandels had a retail pharmacy under the title of "The English Chemist" in the Square Marie-Jose in Ostend. At the conclusion of the 1914-18 war he arranged for a trial shipment of the company's products to be sent to Ostend. Mr. Wandels, now aged eighty, has retired both from his pharmacy and from the Smith Kendon agency. (Picture on p. 45).

Items in 1969 Programme.—The national sales conference of Jeyes Group, Ltd., held recently, was attended by more than 300 representatives of the various companies in the Group. Mr. L. Ellery (managing director, Jeyes-Parozone Sales) defined his 1969 strategy of continuing to increase distribution and consumer sales through new and dramatic promotional schemes backed by national advertising. A new marketing approach would see immediate new product introductions and test market operations. Mr. M. Wiseman (managing director, Brobat Group) foresaw tremendous extra advantages in terms of increased coverage, distribution and range of products in 1969.

An Aid to Cancer Research.—A new Stereoscan scanning electron microscope installed at the Cambridge Instrument Co.'s headquarters at Grosvenor Place, London, S.W.1, has been purchased with a grant of over £20,000 made by the British Empire Cancer Campaign. The instrument is being employed in research at St. George's Hospital medical school, Hyde Park Corner, "just a few yards away." The provision of accommodation at Cambridge House allows an immediate start to be made on the research since the Stereoscan was not due to be installed until late 1969 when new clinical research laboratories at St. George's Hospital, Tooting, are completed. The capacity of the Stereoscan to display structural details of entire objects at high magnification is being used by Dr. B. V. K. Smith in studies on chromosome structure.

Reports on a Paediatric Congress.—A 16-p. illustrated news report, "Conference," on Sections of an international congress held in Mexico City, Mexico, recently, has been published in Spanish by Glaxo Laboratories, Ltd., Greenford, Middlesex. An English edition is in preparation.

ARMBANDS FOR SCHOOL CHILDREN

Delrosa provide them at cost price for mothers and schools

THE manufacturers of Delrosa rose-hip syrup Phillips Scott & Turner Co., 2 St Marks Hill, Surbiton, Surrey, are to make available to the public and to local education authorities Glo-Strip safety arm bands for school children to wear when they go to and from school in the dark. The bands are offered at basic cost price of 3s. 3d., per pair, plus postage and packing, total 3s. 11d. Two pairs or more are at prices that show savings on that amount. The new school term, the company point out, started on January 7, and many parents have been finding good quality safety bands difficult, if not impossible, to obtain.

The Glo-Strip band is understood to have received favourable comment from the Ministry of Transport's road safety unit, and has also been approved by the Royal Society for the Prevention of Accidents, and British Safety Council. The band measures about 9 x 5 in., and incorporates both reflective and fluorescent surfaces, both vital if the bands are to be properly effective. The bands are considered the best possible buy currently available to mothers concerned about their children's safety. 10,000 pairs are immediately available. Intending purchasers should write in to the company, enclosing postal order or cheque.

THIS IS VERY IMPORTANT

But only to pharmacists

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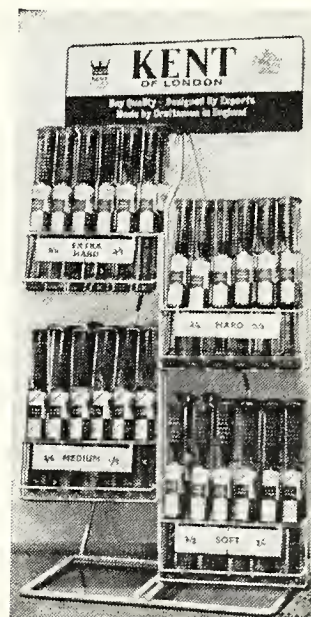
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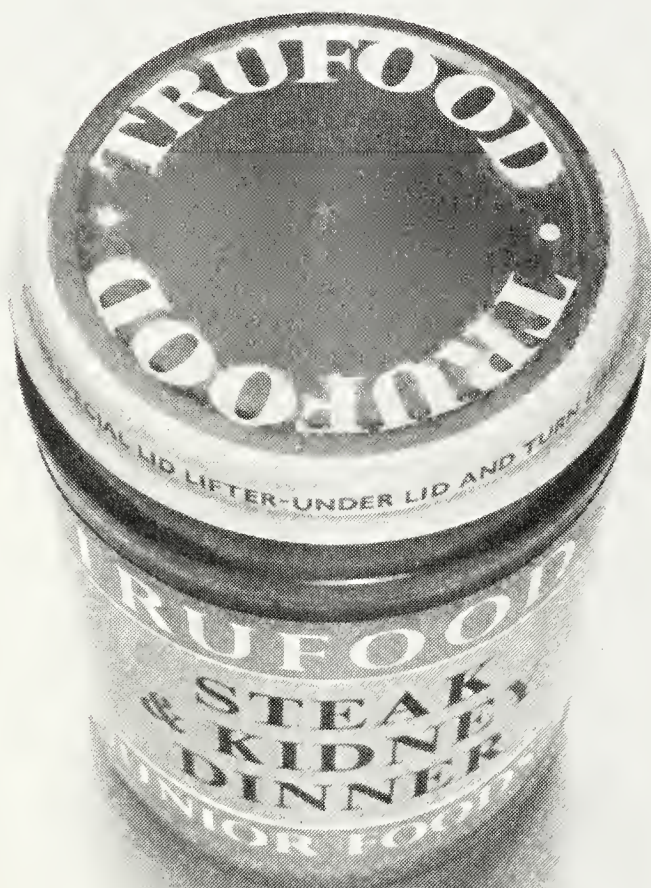
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TRADE NOTES

Manicure Accessories.—C. S. Manufacturing Co. (Bristol), Ltd., 292 Two Mile Hill Road, Kingswood, Bristol, Glos., are suppliers of emery nail boards and orange sticks for both home and export markets.

Renamed.—The name Capastat has been given to the product capreomycin sulphate marketed by Dista Products, Ltd., Speke, Liverpool, 24. Existing stocks are not being recalled for relabelling. Supplies bearing the new name are expected to be available during January.

Change of Distributor.—BDH Chemicals, Ltd., Poole, Dorset, are now the distributors in Great Britain and Northern Ireland of Thrombotest (Owren). Orders or technical inquiries should be addressed to the company. Pack sizes are unchanged. There is no interruption of supplies.

Back to Original Source.—Betadine scalp lotion, an original product of H. R. Napp, Ltd., Watford, Herts, has returned to the company after a period of marketing under licence. It is being vigorously promoted to the medical profession for the treatment of dandruff and other seborrhoeic conditions of the scalp.

New Arrangements for Distribution.—The following products of Gerhardt-Penick, Ltd., are now being sold and distributed through all trade channels in the United Kingdom (except Northern Ireland and Isle of Man) by Eucryl Ltd., Oakley Road, Southampton, SO9 7AT. Fresh'n Dainty deodorant spray, tissues, powder and liquid, Emko vaginal-foam contraceptive, Tums indigestion tablets, Dethmor rodenticides and Slugbait, Rinoxin rodenticides, Raticate, Pied Piper, rodenticide, Dethlac insecticidal lacquer and Thram anti-pecking spray.

Brought into 'Save for Baby' Plan.—Maws Pharmacy Supplies, Ltd., Aldersgate House, New Barnet, Herts, and British Cod Liver Oils (Hull and Grimsby), Ltd., Hull, Yorks, have arranged for all products in the Seven Seas range to be included in Maws "Save for Baby" plan. Introduced at the beginning of 1968, that scheme enables mothers to purchase items of nursery equipment such as cots and push chairs at reduced prices. "Save for Baby" plan vouchers are being incorporated into all Seven Seas packs and details of their values included in the plan catalogue.

Change of Title.—To avoid confusion with the official tinctura chloroformi, B.P.C. (synonym chlorodyne), state J. T. Davenport, Ltd., 83 Union Street, London, S.E.1, the words "chlorodyne" and "Dr" have been deleted from the title of their proprietary product Dr. J. Collis Browne's chlorodyne, and in place of "chlorodyne" the word "compound" has been substituted. The change will take place about the beginning of July, from which date the product will be known as J. Collis Browne's compound. No change is involved in the method of manufacture of the product. When the relevant provision of the Medicines

Act comes into force at a later date all distributors, both wholesale and retail, will be notified by the company, and any remaining stocks labelled "chlorodyne" will be withdrawn and exchanged. Until that time both packs may be sold. Information about the change is being advertised to the public and given also on a slip attached to each bottle.

1969 Hay-fever Vaccine.—Bencard, a branch of Beecham Group, Ltd., Great West Road, Brentford, Middlesex, announce that Alavac P, the company's 8-9 dose hay-fever desensitising vaccine, is now available for the 1969 season. Alavac P contains extracts of twelve common grass pollens (Bencard group B.), and, if given before the hay-fever season, can provide protection throughout the summer without the need for palliative treatment. Described as a most effective alternative to D-VAC pollens, Alavac P is available from stock. Orders for the D-VAC pollens are no longer being accepted. With each set are included disposable syringes and full administration instructions.

Under New Marketing.—Wilkinson Sword (Acton), Ltd., Great West Road, Brentford, Middlesex, announce their plans for marketing Jordan ("world's finest") toothbrushes. They will be bringing to their support of the Jordan toothbrush "a level of marketing and sales expertise hitherto unknown in this industry," declared Mr. Charles van der Lande (marketing director of the company's U.K. shaving division) at a sales conference in London recently. New display material, national and women's Press advertising and a holiday competition for retailers were among plans announced. Messrs. Wilkinson estimate that the present market of 38 million toothbrushes a year will increase to about 100 million. Research is understood to have shown a 67 per cent. preference for Jordan against other leading products. Three new merchandising units have been produced suitable for different types of shop. Features of the Jordan toothbrush include its V-shaped tufts angled so that brushing power is concentrated at the teeth crevices and which "remain springy longer than conventional-shaped tufts." Each is packed and sealed in a hygienic blister pack.



Mr. P. Lindho (left) managing director of Jordan, the Swedish company that manufactures toothbrushes, hands over to Mr. Charles van der Lande, at the sales conference of Wilkinson Sword, Ltd., in London, a giant Jordan toothbrush. In the centre is Mr. Brian Slyfield (Wilkinson Sword's product manager).

Bonus Offers

E. C. DE WITT & Co., LTD., Croydon, Surrey. *Gum Eze*, fourteen invoiced as twelve. *Plaicedex*, thirteen invoiced as twelve. *No Rash*, thirteen invoiced as twelve.

CUTICURA LABORATORIES, LTD., Maidenhead, Berks. Ayds. Discount of 10s. per case. Till February 28. Counter unit, leaflets and window stickers available.

F. C. PATON (SOUTHPORT), LTD., P.O. Box 5, 1a Peels Lane, Southport, Lancs. Thum. Fourteen invoiced as twelve. Till March 31.

MAWS PHARMACY SUPPLIES, LTD., Aldersgate House, New Barnet, Herts. Nappiclene germicidal soaking agent. 2½ per cent. on 2-4 cases; 7½ per cent. on 5-7 cases; 12½ per cent. on eight cases and over. Till February 28.

TRUFOOD, LTD., London Road, Guildford, Surrey. Humanised Trufood. Any quantity ordered direct in multiples of six invoiced at 4-doz. rate. Till March 14.

ANDRE PHILIPPE, LTD., 71 Gowan Avenue, London, S.W.6. Lot No. 12 (lacquer refill). Discount of 10 per cent. on one bonus parcel (12 doz.). Minimum order for wholesalers ten bonus parcels.

WILKINSON SWORD (ACTON), LTD., Sword House, Great West Road, Brentford, Middlesex. Wilkinson Sword blades. 5s. off trade price of Pillar-pack (twenty-five "dispensers"); 10s. off trade price of Swordpack (fifty "dispensers").

ANESTAN, LTD., Rankine Road, Daneshill West, Basingstoke, Hants. Hermesetas. Twelve invoiced as ten on order for 4 doz.; twelve invoiced as eleven on order for 2 doz. (Fernfresh, Elle, Anestan and Angora at same terms on same order.)

RADIOL CHEMICALS, LTD., Stepfield, Witham, Essex. Canine Vi-Minerol new 4-oz. size. 10 per cent. off order value £5 or more (may include other products of the company).

INSULEX LTD., 124 Barlby Road, London, W.10. Full 66 per cent. profit on special bonus pack for delivery at any time up to April 30, and containing a balanced selection from the Insulex range together with hand-out leaflets and display material. Till March 31.

N.P.U. MARKETING LTD., 321 Chase Road, London, N.14. *Professional toothbrushes*. One free outer dual nylon brushes with order for three outers of adult bristle brushes. One free outer dual nylon and one outer dual bristle with order for six outers adult bristle brushes. The offer excludes junior, denture, or smoker's brushes. Professional pre-packed display stand, extra 10 per cent. discount. *NPU nailbrushes*. Extra 10 per cent. on each "dispenser" containing 1 doz. assorted. *NPU combs*. 1 doz. dressing combs free with each display dispenser of nylon or polypropylene combs. *Chem Plus* denture cleansing liquid. Twelve invoiced as eleven. *Cleansing cold cream*. Extra 5 per cent. on order for 3 doz. *Lanadem* hand lotion. Twelve invoiced as ten on order for 2 doz. *Nu-Cot*. Extra 5 per cent. on both sizes.

NEW PRODUCTS AND PACKS

PHARMACEUTICAL SPECIALITIES

For Urinary Tract Infections. — Uropol capsules each containing tetracycline phosphate complex, 125 mgm.; sulphamethizole, 250 mgm.; and phenazopyridine hydrochloride, 50 mgm. are being promoted for urinary tract infections by Bristol Laboratories, Ltd., Stamford House, Station Road, Langley, Slough, Bucks. Packs are bottles of fifty and 250.



New Ventolin inhaler of Allen & Hanbury's, Ltd., Bethnal Green, London, E.C.2. (see C. & D., January 4, p. 9).

BEVERAGES

Tonic Wine With Added Iron. — Whiteways Cyder Co., Ltd., Whimpey, Devon, are distributing a new variant of Sanatogen tonic wine containing 6.77 mgm. Fe per 100 gm.

VETERINARY SPECIALITIES

Sheep Dip and Dusting Powder. — A new dip designed to control mycotic dermatitis or "wool rot" in sheep is one of two new products introduced by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts. Mycotic dermatitis, a skin infection affecting the fleece, is a particular problem in close-wool sheep, and is more prevalent in the West of England. Cooper's M.D. powder dip permits treatment of the infection at the time sheep are given their customary dipping to control maggot-fly strike. A companion product, Cooper's M.D. dusting powder,



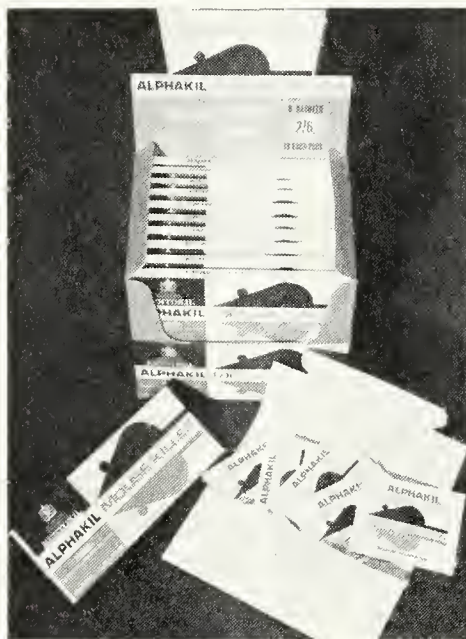
A severe case of mycotic dermatitis.

is applied to the back of the sheep and brushed with the hand lightly into the fleece ten to thirteen weeks after the dipping, or in August and October if the sheep have not previously been dipped for mycotic dermatitis control. Effect of the dusting powder remains until dipping the following year. The powder dip product contains aluminium sulphate and Supona (chlorfenvinphos, the active ingredient of Cooper's fly dip). It has to be added at the rate of

10 lb. per 100 gall. of wash, dispersing easily in the water (no need to make a paste first). The dusting powder, which contains a mixture of aluminium sulphate and alum, may be applied through an applicator or fine sieve to ensure a more uniform distribution than is possible with the hand. Each of the two products is in a 10 lb. drum. A 50-lb drum is being made available later.

PESTICIDES

"Chemists Only" Mouse Killer. — Alphakil, a new mouse killer packed in sachets introduced by Rentokil Laboratories, Ltd., products division, Felcourt, East Grinstead, Sussex, is being dis-



tributed through chemists only. Described as "advanced, humane, quick-acting," the product has been cleared by the Ministry of Agriculture, Fisheries and Food and conforms to the requirements of the Pesticides Safety Precautions scheme.

SUNDRIES

Baby Cleansing Lotion. — Maws Pharmacy Supplies, Ltd., New Barnet, Herts and Preston, Lancs, have introduced

Maw's baby cleansing lotion, specially formulated to be mild and soothing for baby's skin. The product contains the antiseptic hexachlorophene and may be used at any time in place of soap and water, and in particular against napkin rash. Pack is an unbreakable plastic bottle (3s 3d.) containing 103 gm. Minimum quantity is six bottles.

"Firm" Gum Massagers. — Farillon, Ltd., Chesham House, Chesham Close, Romford, Essex, announce that in addition to the "standard" form of Inter-Dens gum massagers, a "firm" type is available for those whose teeth are closely packed (hence with little inter-dental spacing). A pack of five booklets (orange-coloured) is at the same rate as for the "standard" (blue-coloured) Inter-Dens.

Aid to Baby Care. — Brexton, Ltd., 5 Grange Road, Small Heath, Birmingham, 10, recommend their Brexton insulated bag as a useful aid to the nursing mother. The bag may be used to maintain the temperature of baby foods, thus enabling late-night or early-



morning feeds to be prepared in advance. The bags, in plastic-coated cloth, are in a variety of colours, each insulated throughout and zipfastened. There are five sizes (11 x 5 x 7 in., (32s.); 12 x 6 x 8 in. (38s.); 13 x 7 x 9 in. (46s.); 14 x 8 x 10 in. (52s.) and 15 x 7 x 11 in. (64s.).



Left: New baby cleansing lotion from Maw's Pharmacy Supplies, Ltd., New Barnet, Herts. Right: Maw's nappy liners and Nappicleene, now nationally distributed.

COSMETICS AND TOILETRIES

New-formula Stick Make-up. — Miners Make-up, Ltd. (distributors Myram Picker, Ltd., Hook Rise, Surbiton, Surrey) have produced a revised less greasy, Miners stick make-up (4s. 6d.) claimed smoother and cooler to apply, and with more even coverage. There are three shades: light, medium and dark, and the container is a swivel case.

Sensitive-skin Cream. — Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1, have perfected a night cream for skins that have a tendency to flakiness and need a specially emollient preparation. The new cream is lightly perfumed and has also mild antiseptic qualities. It is also useful as an after-shave cream for men. Packs are jars of 1 oz. (17s. 6d.) and 2 oz. (28s. 6d.).

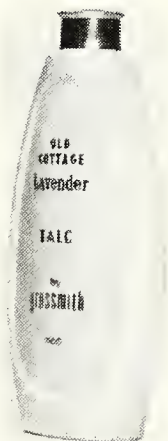
Shampoo for Colour-treated Hair. — Included among the Vitapointe products of Fisons Pharmaceuticals, Ltd., Derby Road, Loughborough, Leics, is now a shampoo for colour-treated hair.

It is available in sachet (11d.) or bottle (3s. 4d.).



IN NEW PACK: Following on the success of their faceted design tapered glass container for shampoos Andre Philippe, Ltd., 71 Gowan Avenue, London, S.W.6, have adopted it in replacement of their previous pack for lot No. 5 perfumed pink hand cream as shown.

TALC IN NEW MOULDED PACK: The Old Cottage lavender range of J. Grossmith & Sons, Ltd., 41 Piccadilly, London, W.1, now includes a moulded pack in pale lavender with gilt trim as illustrated. Export sales of lavender preparations are understood to have rocketed during the past eighteen months — especially in Italy, Holland and Belgium.



Hand Soap "Traveller." — Available from Morny, Ltd., 201 Regent Street, London, W.1, is a "traveller" (4s. 9d.) made especially for the round 2½-oz. Morny hand soap—a round lightweight polystyrene container holding the soap exactly. Colour of the container is keyed to the six hand soaps (French fern, sandalwood, lily of the valley, pink lilac, gardenia and lavender) and matches the corresponding lightweight Morny talc. The gold blocked lid is stamped "Morny" and "Fine English Soap."

"Entirely New" Colour Products. — Chesebrough-Ponds, Ltd., Victoria Road, London, N.W.10, have launched two products which they describe as "entirely new." The first, Colourgloss, is a gloss lipcolour that is "transparent colour with a soft glossy glow

built right in." Shades are Sheer Apricot (delicate apricot with a hint of pink); Sheer Orange (glowing golden orange); Sheer Damask (soft muted rose); and Sheer Lilac (colour

of pink lilac blossom). Second new product is One Coat, a translucent pearl nail polish to cover the nails after one application, with glowing colour that lasts. There are six shades.



NEW GROSSMITH SERIES: Products in and show matter for the new Adventure range of J. Grossmith & Sons, Ltd., 41 Piccadilly, London, W.1 (see C. & D., December 21/28, 1968).

CAUSES OF DENTAL CARIES

Discussions at a sponsored symposium

"THERE is no doubt that fruit juices of the bottle variety (such as welfare orange juice) cause dental caries." So said PROFESSOR G. B. WINTER (professor of children's dentistry, Eastman Dental Hospital, London) when addressing medical officers of health at a recent symposium on the "Dental Health of Infants" held at the school of dental surgery, Newcastle University — a symposium supported by a grant from Beecham Foods nutritional research department, Brentford, Middlesex.

Sweetened milk and dummies, he added, also played a part, while comforters or reservoir feeders, filled with fruit juice or jam or honey and allowed to remain in contact with the teeth for long periods, were positively dangerous. The destruction they caused could not be undone, but further damage could be prevented if, for instance, the comforter was taken away. The earlier that change in habits occurred, the better the result. It was important to educate the public in these matters, so as to prevent them from misusing fruit juices and the like. Diluting them, taking them at meal times so that sugary substances were washed away, making sure that the sugary substances arrived at the back of the mouth (not near the teeth) and were swallowed, all helped, like regular cleaning, to keep rampant dental caries at bay. For older children sugary and acid soft drinks should not be allowed to excess for both were factors contributing to dental decay.

Welfare orange juice, rose-hip syrup and malts should all be taken at meal times.

PROFESSOR R. L. HARTLES (professor of dental science, Liverpool University) described dental caries as essentially a phenomenon of the tooth surface and caused by interaction of bacteria with substances in the diet. First downward step was the formation of dental plaque, an adherent mass of micro-organisms, salivary degradation products, food debris and products of microbial metabolism. Organisms in the plaque could convert fermentable carbohydrates into organic acids, causing the initial breach in the highly mineralised enamel. All carbohydrates were suitable starting material for the bacteria to work upon, but those in a raw state were much less damaging. Finely ground sugars, for example, were more liable than coarsely ground ones to cause caries. The more sticky a substance the more havoc it could cause. Sucrose was not an essential factor in the aetiology of caries though probably the most cariogenic of all dietary carbohydrates. Once it was broken down to fructose and glucose it had less potential for causing harm.

DR. MAURICE BROOK (Beecham Products (U.K.), Ltd.) described research work that had led his company to include liquid glucose in a new vitamin-C syrup (Carella) designed specially for babies and young children. The syrup had also, he said, exceptionally low acid content.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Where the Business Relationships?

SIR,—The events listed by *Ut Severis Seges*, especially 4, 5, and 6 — have happened a few times to myself. From conversations with other pharmacists it would appear that the worst offenders are toilet and cosmetic houses — with whom, a decade or two ago, it was a pleasure to do business. It might be wise for these houses to go easy on the hard and smart sell to their chemist outlets. With the continual growth of door-to-door sales I am very sure that, in less than ten years, cosmetic manufacturers will need the retail chemist more than he needs them.

A. C. G. FLORENCE,
Glasgow, C.2

Compulsory Universal "N.P."

SIR,—I am sorry to read that E. C. Tenner is of the opinion that the automatic descriptive labelling of dispensed medicine falls into his category of non-essential tasks. There was a time, when I was chairman of the Society's Practice Committee, when I fully supported the convention that, if the prescriber wished the name of the drug to appear on the label, he should have to append the magic letters "N.P." beside the relevant item. Since that

time the medical profession has sought a variety of reasons for the new automatic convention, and as all those reasons are medical as distinct from pharmaceutical the Society has accepted that the balance now lies with automatic descriptive labelling.

Whilst at one time I shared to a degree the views of E. C. Tenner in this particular matter, I am now content in the knowledge that the Society's Council will, when agreement has been reached with the Contractors' Committee, publish the list of potential dangers and disadvantages that may accrue from adopting the new convention. If any or all of these manifest themselves then it will be clearly demonstrated that the liability will lie with the medical profession. I cannot understand why E. C. Tenner feels that such a task as this is against the best interests of contractors. If he and other contractors are concerned about remuneration for this additional task then I would suggest, in view of the impending remunerations survey, that the sooner the convention is adopted then the more certain it will be that any additional time taken to fulfil it will be included in the activity sampling.

JOHN B. GROSSET
Edinburgh

LOOK BACK IN SORROW

Mr. C. H. Patrick writes from his retirement

SIR,—Looking back over my fifty years as a retail pharmacist, sorry, pharmacist in general practice, I clearly see how weak and powerless is the Pharmaceutical Society of Great Britain. I have read about the "status of the pharmacist" almost weekly since 1917, but have seen little done to enhance it. I remember, when I first started my four years' apprenticeship, the president of the Society was the owner of Doan's pills (or was it Carter's Little Liver Pills?), and then our shelves were cluttered with many "patent" medicines, which were copied by the boys at the top and appeared in official formulas (Antiphlogistine=kaolin poultice, Glyco-Thymoline=glyc. thymolis co., Boro-Glyceride=glyc. boracis, Califig=syr. ficorum co., Fellows' syrup=syr. hypo. co., Scotts' emulsion=emuls. ol morrhuae, Angier's emulsion=emuls. petrolei cum hypophos., etc.). All this nonsense shows how they were stuck for original ideas. And what rubbish appeared in the B.P., 1914! Then, in 1919, to "solve the unemployment problem of ex-Service men," the Society admitted hundreds of men to the register, after a three-months' course. The result—pharmacists became two a penny and in the twenties one was lucky to earn £4 for a sixty-hour week. Jesse Boot took full advantage of that situation and became richer by millions, increasing his business to over 1,200 shops and paying his managers £5 per week. Why the Society let him get away with it has

always puzzled me. Then came the second war and the promised National Health Service. Hundreds of men left Boots and other large multiples and had a go on their own. At the age of forty-four I myself opened a new pharmacy in 1946 in a village where the prospects appeared good. The so-called Health Service (which should be named the Sickness Service) started with a rush. The Americans built their factories and sent out their representatives, and everyone connected with pharmacy seemed to do all right. Wages shot up, and then the Society had a brainwave. They decided that tablet-counting could not be done unless one had a university degree. Result: At a time when hundreds of pharmacists were needed to cope with the rush for "free" medicines, entry into retail dropped, and hundreds of elderly pharmacists either dropped dead through overwork or closed their shops. Locums (some of which qualified in 1919 on that three months' course) demanded and got £50 per week for less work than they did for £4 in the old days.

Society "Amuses Itself"

Meanwhile the Society amused itself by putting up the annual fee, and adding item after item to the Poisons List. They even put Collis Browne's chlorodyne in the D.D.A. list for a fortnight or so! My own business, conducted in an ethical manner as approved by the Society (carboys on show, shelves packed with obsolete shop rounds,

white demy used to wrap all medicines, spotless white coats and dust-free displays) continued to flourish. Takings rose seven-fold from 1946 to 1967. Everyone was happy. As I grew older and less able to cope, I employed qualified help and enlarged my dispensary. Average time for completing a prescription was five minutes. Ours was indeed a happy pharmacy. And then it happened. Into the village came a firm of property developers, who knocked down some old units including a huge corner shop exactly opposite mine. This was the last to be let and was eventually taken by a young pharmacist (under 30) who already had two pharmacies. He filled the place with fluorescent tubes and installed an illuminated sign "CHEMIST" about 8 ft. by 3 ft. which blared into my doorway night and day. Result: My takings took a dive, I had to do without my qualified dispenser and tackle all the work myself, and found myself in hospital within a year, I had intended to carry on until seventy, but had to sell as I just could not carry on. We hear a lot of talk about "limitation of pharmacies." May I suggest the Society does something soon? If a pharmacist applies to open a pharmacy, surely they could ask him how near is the nearest practising pharmacist, and, if he says 5 yards, then check that the service is already satisfactory and reject the application. How dare the Society permit a pharmacist to attack the livelihood of a fellow member in this way? But I forgot; the Society gets another £5 per year premises fee. This makes up for some of the fees lost when old-timers have to close down because they are unable to pay £50 per week black-mail to indifferent locums.

C. H. PATRICK,
Twyford, Berks

BRANCH EVENTS

LIVERPOOL

Gift to Museum

MR. and Mrs. C. E. Evans, Ms.P.S., have presented to Liverpool Museum a salt-glazed retort from the display at their pharmacy in Allerton Road, Liverpool. The retorts were made by Doulton, circa 1850, and were reputedly used in the preparation of the first samples of chloroform in the laboratories of Clay & Abraham, Ltd., Bold Street, Liverpool. Mr. Alan Smith (keeper of ceramics and applied art at the Museum) is trying to find out the exact date of origin of what he describes as "fine specimens."

N.H.S. STATISTICS

Contractors in BIRMINGHAM during August 1968 dispensed 448,241 prescriptions (291,904 forms). Total cost was £247,930, an average of 132.75d. per prescription.

In CORNWALL during August 1968 161,543 prescriptions (107,935 forms) were dispensed costing £105,117. Average cost per prescription was 156.17d.

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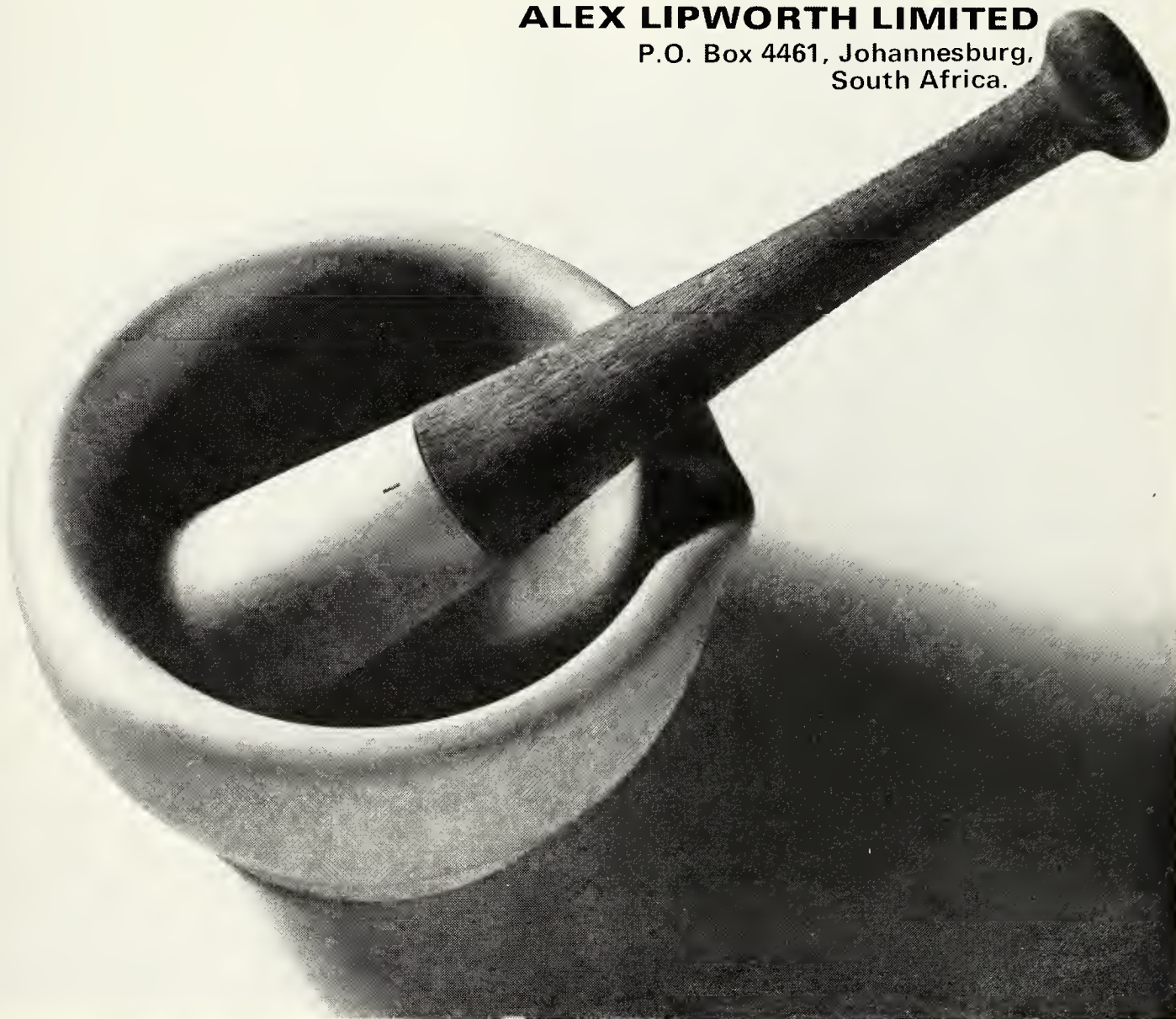
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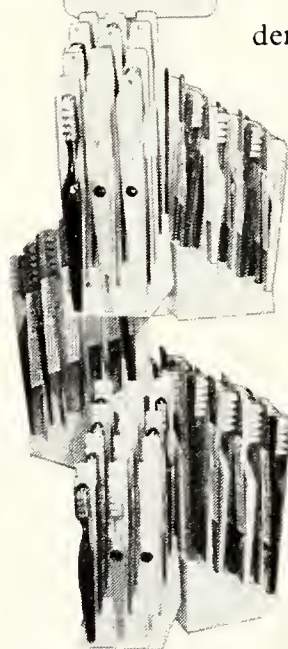
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FOR DECEMBER 1968

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(Note: If you lose a sheet, please apply to the Publisher for a replacement.)

To know whether a product has changed in price since the current Quarterly Price List appeared, look at the index which follows. If the product is listed, turn to the page number indicated. If not, turn to the Q.P.L. itself for the price of the product.

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AMENDMENTS TO KEY TO SUPPLIERS

27 Alcona=Alcona Products, Ltd., 1 Grenville Road, London, N.19. 01-272 4618.	
47 Anestan=Anestan, Ltd., Rankine Road, Daneshill West, Basingstoke, Hants. 0256-25051.	
201 Brunton=Bruton Chemists, Ltd., 50 Jesmond Road, Newcastle upon Tyne, NE2 4PQ. Newcastle 811243.	
319 CLL=Creighton Laboratories, Ltd., Water Lane, Industrial Estate, Storrington, Pulborough, Sussex. Storrington 3452.	
357 DS & H=Day, Son & Hewitt, Ltd., 25 Auckland Street, London, S.E.11. 01-735 0071.	
512 GF=Giles Farnaby of London, Ltd., 143 New Bond Street, London, W.1. 01-499 5566.	
710 Knox=Knox Laboratories, Ltd., 4 Arundel Street, London, W.C.2. 01-836 5692.	
819 McY=McClure, Young & Co., 25 Auckland Street, London, S.E.11. 01-735 0071.	
973 Pharmitalia=Pharmitalia (U.K.), Ltd., Kingmaker House, Station Road, Barnet, Herts. 01-440 7171.	
988 Pollen=Pollen Products, Ltd., 841 High Road, London, N.12. 01-445 8911.	
1092 Saga=Saga of Bond Street, Ltd., 457 Edinburgh Avenue, Slough, Bucks. Slough 30424.	
1317 Westberry=Westberry (Brixham), Ltd., Churchill Court, Brixham, S. Devon. Brixham 3706.	
1482 NP=Nationwide Pharmaceuticals, Ltd., 25 Auckland Street, London, S.E.11. 01-735 0071.	
1488 LC & C=Leopold Charles & Co., Ltd., 233 Shaftesbury Avenue, London, W.C.2. 01-836 2024.	
1520 IPM=Interfron Product Management Sunley House, Bedford Park, Croydon, Surrey. 01-686 7345.	
1529 PP=Please Petfoods, Ltd., 165 The Crescent, Chalvey, Slough, Bucks. Slough 24343.	
Tetralysal, 1	Vaccò, 44
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Alberto-Culver Co., 6	Anestan, Ltd., 6	Arnold Hair & Skin Institute, 7	Aurum Ambrosium, Ltd., 22	

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Ltd.,	31	Ltd.,	9	Ltd.,		International Laboratories,	32	Ltd.,	14
Barnes & Crompton, Ltd.,	7	Commercial Drug & Chemical		Fennings Pharmaceuticals	31	Ltd.,	3	Merrell Division, Richardson	
Bayer Products Co.,	7	Co., Ltd.,	3	Ferguson, Shaw & Sons,		Irish Moss Manufacturing		Merrell, Ltd.,	14
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British Schering	53	Ltd.,	10	James Hardcastle		Leslies, Ltd.,	13	Ltd.,	24
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H. Bronnley & Co., Ltd.,	8	J. W. H. Dew & Co., Ltd.,	10	James Hart (Chemists), Ltd.,	40	Eli Lilly & Co., Ltd.,	13	W. T. Owbridge, Ltd.,	14
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Camden Chemical Co., Ltd.,	8	Dunlop Co., Ltd.	19	Hoechst Pharmaceuticals,		Ltd.	54	Parke-Davis & Co.,	14
J. L. Caplin, Ltd.,	8	Durham Duplex Razor Co.,		Ltd.,	12			Parkinsons, Ltd.,	14
Cardinelli Beauty Products,		Ltd.,	36	Hofels Pure Foods, Ltd.,	12	Manly Co.,	13	E. C. Paton (Southport).	
Ltd.,	23	Dyffryn Taf Pharmaceutical		E. R. Holloway, Ltd.,	32	Sidney Margolis, Ltd.,	35	Ltd.,	14
Carlo Erba (U.K.), Ltd.,	27	Products,	11	Robert Holt (Mddx), Ltd.,	12	Thomas Marns & Co.,	4	Payot, Ltd.,	33
Carmen Curler Co., Ltd.	19			B. Hooper & Co., Ltd.,	12	Marshall's Pharmaceuticals,		Pearmoss, Ltd.	54
Carter Bros.,	31	Earex, Ltd.,	31	Horlicks Pharmaceuticals,		Ltd.,	13	Pectinol (G.B.), Ltd.,	24
Carter & Sons (Sheffield),		William Edge & Sons, Ltd.,	11	Ltd.,	12			J. L. Perl, Ltd.,	14
Ltd.,	8	Edwards Harlene, Ltd.,	11	Horlicks, Ltd.,	12	Marshall's Proprietaries, Ltd.,		A. D. Perrie Distributors,	
Carteret Products,	8	Ekco Plastics, Ltd.,	31	Houbigant, Ltd.,	32		13	Ltd.,	33
Cartier Perfumes,	23	Electric Bedwarmers, Ltd.,	40	Hough Hoseason & Co.,		Leslie Martyn, Ltd.,	40	E. G. Perrot & Co., Ltd.	33
W. B. Cartwright, Ltd.,	8	Elliman, Sons & Co., Ltd.,	11	Ltd.,	12	Mason Pearson Bros.,	13	Pfizer, Ltd.,	15
Cernelle (U.K.), Ltd.,	31	Elliot Pharmaceutical		Richard Hudnut, Ltd.,	24	Matthews Laboratories, Ltd.,	24	Pharmaceutical Manufactur-	
Champion (Mexbro), Ltd.	31	Laboratories	27	Hydrophane Laboratories,		D. Mawdsley & Co.		ing Co.,	24
Leopold Charles & Co.		Emmet Laboratories, Ltd.,	35	Ltd.,	32	Ltd.,	27	Pharmaceutical Specialities	
(Pharmaceuticals), Ltd.,	8	Estee Lauder Cosmetics Ltd.,	35			Mawson & Proctor		(May & Baker), Ltd.,	15
Chase Laboratories, Ltd.,	8	Ethica Laboratories,	1	Ilford, Ltd.	48	Pharmaceuticals, Ltd.,	13	Pharmax, Ltd.,	15
S. Cheetham & Sons	35	Eucryl, Ltd.,	3	Ilon Laboratories		Max Factor, Hollywood &		Phenolaine, Co.,	15
Chelspa, Ltd.,	39	Eugene,	54	(Hamilton), Ltd.,	12	London (Sales), Ltd.,	13	Philip Harris Medical, Ltd.,	15
Chesebrough-Pond's, Ltd.,	8	Evanol, Ltd.,	11	Imperial Chemical Industries,		Mayfair Chemicals, Ltd.	24	Philips Electrical, Ltd.,	41
Chemist Brokers,	9	Evans Gadd & Co., Ltd.,	40	Ltd.,	12	McClure Young Co.,	40	Phillips, Scott and Turner	
John Clark & Co. (Mfg.		Evans Medical, Ltd.	11	Infacare, Ltd.,	32	McKesson & Robbins, Ltd.,	32	Co.	27
Chemists), Ltd.	31	Ever Ready Personna Co.,	19	Ingasetter, Ltd.	32	M.C.P. Pure Drugs, Ltd.,	12	Phillips Yeast Products, Ltd.,	15
Clay & Abraham (Mnfg.),		Ex-Lax Ltd.,	3	Innoxia Laboratories, Ltd.,	12	Medaped, Ltd.,	32	Phils Drug Stores (Wholesale)	
Ltd.,	9	Exrid, Ltd.,	11	Insulex, Ltd.,	19	Medico-Biological		Ltd.,	41
Clippa-Safe Hygienic Safety		Eylure, Ltd.,	23	Intec Proprietaries, Ltd.,	3	Laboratories, Ltd.,	14	J. Pickles & Sons	27
Harness,	9			Inter-Alia Pharmaceutical		Medo-Chemicals, Ltd.,	20	Picot, Ltd.,	15
Coates & Cooper Ltd.,	9	F.A.I.R. Laboratories, Ltd.,	11	Services, Ltd.,	12	Meltonian Wren, Ltd.,	14	Plastic Research &	
Cockburn Co., Ltd.,	9	Farillon, Ltd.,	23	International Chemical Co.,		Menley & James		Development, Ltd.,	15
		F. Farthing & Co., Ltd.,	31	Ltd.,	3	Laboratories,	24	Please Perfoods, Ltd.,	15

C. J. Plucknett & Co., Ltd.,	27	Richardson-Merrell, Ltd.,	42	Selto (Eastbourne), Ltd.,	25	Supervite Manufacturing Co.,	Vocalzone, Ltd.,	18
Polaroid (U.K.), Ltd.,	19	Riche (Mayfair), Ltd.,	15	Seneschal Manufacturing Co.,	16	Ltd.,	Wade Pharmaceuticals, Ltd.,	34
Potter & Clarke, Ltd.,	15	Riddell Products, Ltd.,	15	Shadforth, Ltd.,	16	Sutcliffe & Clarkson, Ltd.,	Walker Davis & Co., Ltd.,	18
Potter & Moore,	24	Riker Laboratories,	15	Shadler, Ltd.,	16		Wallace Laboratories,	18
Potter's (Herbal Supplies),		Rimmel International, Ltd.,	15	Shulton (Great Britain), Ltd.,	36	Graham Tatford & Co., Ltd.,	A. Wander, Ltd.,	34
Ltd.,	15	Robapharm, Ltd.,	33	A. L. Simokin & Co., Ltd.,	16	Technical and Optical	Ward Blinksop & Co.,	
Potts Infant's Friend, Ltd.,	33	Roberts' Crompton, Ltd.,	15	Sirex, Ltd.,	25	Equipment (London), Ltd.,	Ltd.,	18
Precision Engineering Co.		Roberts & Sheppey, Ltd.,	16	Sister Lauras Infant & Invalid		Teeda, Ltd.,	Warmabed, Ltd.,	18
(Reading), Ltd.,	41	Roberts Windsor, Ltd.,	16	Food Co., Ltd.,	33	Tell Products, Ltd.,	William R. Warner & Co.,	
Premier Sales, Ltd.,	15	James Robertson & Sons,	16	Slimaid Products, Ltd.,	20	Thawpit Ltd.,	Ltd.,	18
Pritchards, Ltd.,	15	P. M., Ltd.,	16	Leonard Smith & Co.,	17, 42	Therapeutic Products, Ltd.,	J. Waterhouse & Co., Ltd.,	18
Procter & Gamble, Ltd.,	33	A. H. Robins Co., Ltd.,	16	Smith Kendon, Ltd.,	17	Thermalux Electric Products,	Henry Weinberger, Ltd.,	43
Progress Shaving Brush		Robinsons & Sons, Ltd.,	19	Smith Kline & French		Ltd.,	Wella (Gt. Britain), Ltd.,	18
(Vulfix), Ltd.,	19	Roches Products, Ltd.,	4	Laboratories, Ltd.,	25	Thermega, Ltd.,	Wendover House, Ltd.,	18
Pyser-Britex (Swift), Ltd.,	15	Rodmill, Ltd.,	16	Smith & Nephew Pharma-	42	Thermos, Ltd.,	Westberry of Devon,	43
		Rona & Gallet	16	ceuticals, Ltd.,		Hubert A. C. Thomas Co.,	Brian S. Westmacott, Ltd.,	25
Qualcast Fleetway, Ltd.,	15	Rona Laboratories, Ltd.,	16	Wilfrid Smith (Fine	17	Thorton & Ross, Ltd.,	Westminster Laboratories,	18
Mary Quant Cosmetics, Ltd.,	25	Ronson Products, Ltd.,	16	Chemicals), Ltd.,	17	Tidman & Son, Ltd.,	Ltd.,	18
Racasan, Ltd.,	15	Rorer Laboratories, Ltd.,	27	Solport Brothers, Ltd.,	25	Tillotts Laboratories,	Whaley Pharmaceuticals,	18
Radiol Chemicals, Ltd.,	3	Rose Laird, Ltd.,	16	Sophistique, Ltd.,	25	Tokalon, Ltd.,	Whisper Cosmetics, Ltd.,	19
Raimes & Co., Ltd.,	33	Ross Optical, Ltd.,	16	Jean Sorelle, Ltd.,	42	Toni Co.,	J. F. White & Co., Ltd.,	34
Raimes Clark & Co., Ltd.,	15	Helena Rubinstein, Ltd.,	20	Souplex, Ltd.,	17	Torbet Laboratories, Ltd.,	White Hudson & Co., Ltd.,	18
Ramer Chemical Co., Ltd.,	15	Rutin Products, Ltd.,	16	Southalls (Sales), Ltd.,	25	Trimster Co., Ltd.,	White Laboratories, Ltd.,	4
Rapidol, Ltd.,	15	Rybar Laboratories, Ltd.,	16	Southon Laboratories, Ltd.,	17	Ucal (Brook Parker), Ltd.,	Whiteways Cyder Co., Ltd.,	18
Rayette Faberge, Inc.	33	Sabona Rheumatic Relief		Spencer & Co.,	17	Ulster Plastics (Sales), Ltd.,	Wigglesworth, Ltd.,	18
Raymond (Salon Supplies),		Co., Ltd.,	25	Sporcel, Ltd.,	17	Ulter (Bradford), Ltd.,	Wilcox Jozcau & Co., Ltd.,	34
Ltd.,	41	Saga of Bond Street, Ltd.,	16	E. R. Squibb & Sons, Ltd.,	19	Unichem, Ltd.,	Wilkinson Sword, Ltd.,	27
Rayner & Co., Ltd.,	15	Sale Pharmaceuticals, Ltd.,	16	Stafford Miller,	17	Unicliffe, Ltd.,	Willows Francis,	25
Raywarp Textiles, Ltd.,	44	Geo. Salter & Co., Ltd.,	25	Stanwoods Proprietories, Ltd.	17	Union Jack Paste Co., Ltd.,	Windak, Ltd.,	18
Reade Brothers & Co., Ltd.,	15	Sandersons (Chemists), Ltd.,	4	John Steedman & Co.,	17	United Chemists Association,	W. Woodward, Ltd.,	25
Reckitt & Sons, Ltd.,	15	Sandoz Products, Ltd.,	33	Steiner Products, Ltd.,	25	Ltd.,	Worth Perfumes, Ltd.,	19
Remington Electric Shaver		Sarakan Products,	25	I. & M. Steiner (1950), Ltd.	33	Vacco, Ltd.,	Wright Layman & Umney,	
Division,	25	Schick Electric, Ltd.,	19	Stewart, Goodall & Dunlop,		Vaughan Pharmaceuticas	Ltd.,	18
W. J. Rendell, Ltd.,	15	Scholl Manufacturing Co.,	42	Ltd.,	17	Victor of Milan, Ltd.,	Wrigley Co., Ltd.,	25
Renipas Chemical Co., Ltd.,	19	Ltd.,	25	Stiefel Laboratories (U.K.),	17	Violiv Manufacturing Co.	John Wyeth & Bro, Ltd.,	18
Revlon International		Schwarzkopf (Corionol), Ltd.,	16	C. A. Stokes & Co., Ltd.,	27	(1928)	Yardley of London, Ltd.,	26
Corporation,	41	Schwappes (Agencies), Ltd.,	16	Strenol Products, Ltd.,	17	Vitacoat, Ltd.,	Zyma (U.K.), Ltd.,	18
Revall Drug Co., Ltd.,	15	Scott & Bowne, Ltd.,	16	Sunbeam Electric, Ltd.,	17			
Reynolds & Branson, Ltd.,	15	Sealand Trading, Ltd.,	16					

NEW TAX-INCLUSIVE RETAIL PRICES

AGFA-GEVAERT, LTD.

Agfa
films black and white
Isopan 126 12 exp 6s
Isopan IFF roll 120 5s 2d
35mm cassette 36 exp 10s 3d
5 metre length 16s
17 metre length 50s 2d
Isopan IF and ISS
roll 127, 120 & 620 5s 2d
35mm cassette Rapid 6s 3d;
20 exp 7s 11d; 36 exp 10s 3d
5 metre length 16s
17 metre length 50s 2d
Isopan Ultra
roll 127, 120 & 620 5s 2d
35mm cassette 36 exp 10s 3d
5 metre length 16s
17 metre length 50s 2d
Isopan Record
roll 120 6s 8d
35mm cassette 36 exp 13s 6d
17 metre length 74s 11d
filters
25-30-32mm 44s 1d
35.5mm 48s 8d
46mm 61s 8d
papers Brovira
single weight
3½ x 5 100 18s 9d
3½ x 5½ 25 6s 7d; 100 20s 3d
4½ x 6½ 25 9s 11d; 100 30s 9d
6½ x 8½ 10 7s 9d; 100 53s
8 x 10 10 110s 8d; 100 75s 2d
10 x 12 10 15s 6d; 50 59s 5d;
100 111s 9d
double weight
3½ x 5 100 21s 7d
3½ x 5½ 25 7s 9d; 100 23s 11d
4½ x 6½ 25 11s; 100 36s 3d
6½ x 8½ 10 8s 10d; 100 62s 10d
8 x 10 10 12s 1d; 100 89s 6d
Agfacolor
negative film CN17 universal
standard cassette 35mm 20 exp.
9s 10d; 12 exp. 8s 1d; Rapid
8s 6d
roll film 127, 120 and 620 8s 3d
negative film CNS
standard cassette 35mm 20 exp.
10s 11d; 36 exp. 15s 2d;
Rapid 9s 9d; 126 20 exp. 12s;
12 exp. 9s 9d; roll film 127,

120, 620 9s 2d
reversal film CT18
35mm cassette 20 exp. 24s; 36
exp. 34s 6d; Rapid 19s 6d;
roll film 127, 120, 620 17s 11d
8mm cine CT13
25ft 29s 10d
super 50ft 33s 11d
8mm cine CK.17
standard 25ft 29s 10d
8mm Movex cassette 38s 6d
16mm cine
spool 100ft 83s 6d
Agfalux
flashgun KM 134s 7d
CK & CM 72s 4d
Agfatronic
flashguns 2B 249s 11d
16A 408s 10d
20A 511s 10d
Diamator slide projector 100
682s 5d; case 107s 11d; 150
1150s 8d; case 112s
Isi flash guns K and M 50s 9d
Iso flash gun 45s 10d
Iso-Pak camera outfit 90s 8d; case
33s 6d; flash gun 45s 10d
Isomat Rapid C camera 437s 1d;
c.v. case 61s 10d
Iso-Rapid cameras 1 63s 11d; outfit
with flash 143s 1d; without flash
72s 3d
IC outfit 125s 4d; car outfit
155s 6d
C silver star 131s 3d; outfit
145s 8d
Movector BS projector standard
1065s 4d; zoom lens model
1172s 3d
Optima cameras 1A 724s 4d; case
76s 1d; 500SN 1343s; case 113s;
Rapid 250 699s 10d; case 76s 1d;
Rapid 250V 983s 7d; Rapid 125c
752s; Rapid 500V 1316s 4d; case
89s 10d
Silette cameras 1 268s 8d; F
360s 3d; L 537s 3d; LK 671s 5d;
case 76s 1d; Record 920s 9d; case
113s
Tully flash gun K and M 89s 6d
BRITISH SCHERING, LTD.
Komed lotion 11s 1d

BRITISH WELEDA CO., LTD.

after-shave lotion 9s 9d
cleansing toning lotion 6s 6d; 10s 3d
cold cream 6s 6d
dental cream 3s 6d
lotion 9s
eau de Cologne 8s 9d
foundation lotion 9s 9d
hair lotion 6s 6d; 10s 3d
hair oil 8s
hair tonic rinse 6s 6d
iris hand care 4s
lavender bath milk 9s 9d
lavender water 8s 9d
lemon shampoo 5s 9d
pine bath milk 9s 6d
plant dental cream 3s 6d
rose and honey cream 12s 3d; tube
5s 3d
rosemary bath milk 9s 9d
rosemary and chamomile shampoo
7s
rosemary shampoo 1s; 5s 9d
rosemary soap 2s 4d
rose velvet foundation cream 9s 9d
silver birch massage oil 11s 3d
skin food 6s 6d

DANA SALES, LTD.

Canoe
Cologne 50cc 27s 3d; 100cc 45s;
220cc 82s; 420cc 146s
perfume trial 12s 6d; 3.5cc 22s 6d;
7cc 39s 6d; 14cc 52s 6d; 10cc
72s; 19cc 109s 6d; 35cc 166s 6d;
80cc 280s
soap (3) 21s 6d
talcum 20s
Emir
Cologne aerosol spray 50cc
27s 3d; 100cc 45s
perfume trial 12s 6d; 3.5cc
22s 6d; 7cc 39s 6d; 14cc 52s 6d;
15cc 107s
Tabu
Cologne 50cc 27s 3d; 100cc 45s;
200cc 82s; 400cc 146s; 900cc
240s; aerosol spray 36s
dusting powder 69s
mist fragrance 215s; refill 96s 6d
perfume trial 12s 6d; 3.5cc 22s 6d;
7cc 39s 6d; 14cc 52s 6d; 19cc
109s 6d; 35cc 166s 6d; 80cc

280s; 180cc 428s 6d

soap (3) 21s 6d
talcum 20s

DOROTHY GRAY, LTD.

2 Minute Magic 12s 6d; S.O. 14s 6d
beauty case, small 139s 1d; large
226s
bracing cream 13s 10d
Bright Mist spray set 13s 7d
cleansing cream liquefying 12s 3d;
20s; 29s 2d
cream rouge 10s
dry skin cleanser 12s 3d; 20s;
29s 2d
Elation
bath essence 7s 8d; 11s 6d;
19s 2d
creamy skin perfume 17s 5d
dusting powder plastic 10s 3d;
drum 17s 11d
hand and body lotion 11s 6d
perfume purse 17s 11d
puffer spray 15s 4d
skin perfume 7s 8d; 11s 6d;
18s 11d; 30s 6d
make-up
brush-on blusher 30s 6d; refill
plain 14s 1d, frosted 15s 1d
contouring set 37s 4d
cream powder 9s 6d
eyebrow pencil 4s 1d
eyeliner brush 8s 5d
eyeliner liquid 11s 9d
brush-on 11s
propelling pencil 14s 4d
eye make-up remover pads 10s;
lotion 6s 8d
eye shadow brush-on 16s 5d; re-
fill 10s 3d
cream 11s
stick 11s 9d
face powder 12s 3d
lipstick high gloss 9s
nacre 9s 9d
liquid make-up 11s 3d
mascara block 10s
brush-on 16s 8d; refill 10s 9d
nail enamel pearl 10s 6d
skin glossers 21s 6d
extra rich night cream 12s 10d;
21s 3d; 32s 3d

Price reduction **Tetracycline** 24/- per 100

(200 invoiced as 100 when ordered direct from CO-CAPS, 361 Lillie Rd. London, S.W.6.)

CO-CAPS

(Basic NHS price)

Fashion Touch 18s 2d
Folie
bath oil 21s 3d
creamy skin perfume 21s 4d
dusting powder, 150gm 20s 3d
hand & body lotion, 110cc 21s 9d
perfume atomiser 74s 6d; refill 37s 4d
skin perfume 8s 8d; 21s 3d; 34s 4d; aerosol 19s 2d
Midnight
bath essence 7s 8d; 11s 6d; 19s 2d
creamy skin perfume 1 oz 17s 5d
dusting powder plastic 10s 3d; drum 17s 11d
hand and body lotion, plastic 11s 6d; glass 15s 10d
perfume 46s 7d; purse 17s 11d; puffer 15s 4d
skin perfume 7s 8d; 11s 6d; 18s 11d; 30s 6d; 42s
orange-flower skin lotion 12s; 22s 6d
portrait make-up 15s 10d
quick cleanser 11s 9d
salon cold cream 12s 3d; 20s; 29s 2d; tube 13s 10d
sensitive skin cream 12s 10d; 21s 3d; 32s 3d
shampoo "natural glo" 9s 11d
Special Appointment
bath concentrate 24s 1d
dusting powder 10s 6d
puffer spray 15s 4d
skin perfume 8s 8d; 24s 1d
special dry-skin mixture 13s 4d; 24s 1d; 41s 6d
stay-matt 11s 3d
texture lotion 12s; 22s 6d
Young and Lovely foundation 9s

FUGENE
coiffure conditioning 3s 11d
friction hair perfume 3s 3d
shampoos liquid cream, 13 oz, 3s 10d; luxury 210 cc 5s 11d
oil of orange 20 cc 1s 6d
Delacquer sachet 1s
Spring hair spray
aerosols 5s 11d; 13s 6d
hand spray 3s 3d; refill 1s 9d
Ten Day Set 1s 8d

Wisp lacquer
aerosols 5s 11d; 13s 6d
hand spray 3s 3d; refill 1s 9d

JOHN GOSNELL & CO., LTD.
Cherry Blossom brilliantine 11d
perfume 9s 6d
talcum powder 1s 6d
Cherry tooth paste 1s 10d
Devon Violet perfume (pottery jar) 7s 3d; (wickler) 16s 3d
Society barrier lotion 1s 8d
talcum powder 1s 5d
soap floral (3) 6s 9d
white buttermilk, white lavender or white coal tar 3 oz 8d
white violet classic 3 oz 10s
Famora chamois or pink carnation 3 oz 1s 1d; 6 oz 2s 2d
Favorite—white buttermilk, green lavender, blue buttermilk, pink verberna, yellow jasmin or white verberna 6 oz, 1s 7d
novelty car soap (3) 5s
Downland violet (3) 5s d

LUSTY'S NATURAL PRODUCTS CO., LTD.
No alteration. Retail prices as Quarterly Price List, December 1968

NICHOLAS LABORATORIES, LTD.
Arthropax 12s 5d
Isotense 74s 8d
Lipostabil 21s 2d
Menopax cream 5s 7d; tablets 8s 3d
Polycrol gel 13s 11d; tablets 39s 6d; 5 tablets 27s 3d
Prepacol 13s 4d

OPERA, CREATION, Peche Permis
perfume 1/2 oz 12s 6d; 3/7th oz 25s; 6/7th oz 42s; sac pac 35s; atomizer 42s; refill 27s 6d; luxury pack 1/2 oz 49s 6d; 1/2 oz 67s 6d; 1 oz 110s; coffret (5) 35s; (10) 63s
toilet water 1 oz 12s 6d; 2 oz 21s; 4 oz 35s; 8 oz 60s

D'O'rsay
Arome 3
Cologne 2 oz 29s 6d; 4 oz 47s 6d
soap 80 gm 7s 6d; 180 gm 12s 6d

Chevalier for men
after shave 4 oz 25s; 8 oz 42s; vapo-spray 50s
deodorant 17s 6d
eau de Cologne 2 oz 25s; 4 oz 39s 6d; 8 oz 63s; vapo-spray 59s
pre shave 25s
soap 80 gm 7s 6d; 180 gm 12s 6d; 275 gm 19s 6d
talc 17s 6d
Etiquette bleue eau de Cologne 2 oz 19s 6d; 4 oz 35s; 8 oz 59s 6d; 16 oz 99s 6d; 32 oz 159s 6d; vapo-spray 59s
soap PM 80 gm 7s 6d; GM 180 gm 12s 6d

Tilleul
bath salts 45s 6d; refill 30s
deodorant stick 17s 6d
lait de Tilleul 29s 6d
milk bath 12s 6d; 27s 6d
soap 19s 6d
special tonic 39s 6d; 52s 6d
talc 17s 6d
Eau Fringante 49s 6d; refillable spray 69s 6d

Longcils Boncza
anti cerne stick 15s
eye brow pencils 7s 6d
eye cleansing lotion 18s 6d
eye liner 16s 6d
eye shadow cream matt 15s; pearl 16s 6d
powder compact 22s 6d
stick 19s 6d
Longcilmatic mascara 18s 6d; refill 14s
mascara 15s

Madeleine de Rauch
Belle de Rauch, Miss de Rauch, Vacarme
perfume 1/2 oz 86s; 1/2 oz 140s; 1 oz 225s; 2 oz 338s; 4 oz 496s
toilet water 2 oz 50s; 4 oz 90s; 8 oz 135s; 16 oz 210s
spray mist 85s
Monsieur de Rauch toilet water 2 oz 35s; 4 oz 55s; 8 oz 85s; 16 oz 130s

Robert Piguet
Baghari, Bandit, Fracas, Futur, Visa
perfume handbag 35s; 1/2 oz 84s; 1/2 oz 126s; 1 oz 200s; 2 oz 290s; atomizers (Bandit, Fracas and Baghari only) 88s
toilet water 2 oz 39s 6d; 4 oz 67s 6d; 8 oz 105s; 16 oz 170s; atomizers 88s
soap Bandit (3) 30s
Cravache after shave 2 oz 35s; 4 oz 50s
toilet water 2 oz 35s; 4 oz 50s; 8 oz 75s; 16 oz 120s

PEARMOSS, LTD.
Brigitte Bardot
Biofix 12s
lipstick plain 10s 3d; pearly 11s 4d
base treatment 11s 4d
brilliant cinema 10s 3d
nail varnish plain 10s 3d; pearly 11s 4d
Coryse Salome

THORNTON & ROSS LTD.
Covonia bronchial balsam 3s 6d
Cataline cattle drench 5s 9d
Bluebird shave foam aerosol 6s
Bansor mouth and throat antiseptic 2s 3d
Chilprin tablets 1s 9d
Eftab mouth-wash tablets 1s 9d
Miniprin children's soluble aspirin tablets 1s 10d
Pennine eye drops 2s 6d
Sanident denture cleanser 1s 9d; 3s 1d
Sunlan suntan cream 3s 3d
Samaritan chilblain cream 2s 3d
menthol and wintergreen cream 2s 3d
Three flasks
blackcurrant cough linctus 2s 6d
bronchial emulsion 3s 6d
cherry ginger concentrate 1s 8d
nasal application 2s 3d
Touche shave foam aerosol 6s
Tudor Rose coconut oil shampoo 2s 3d
Vi-Lan lanolin cream 1s 10d

THIS WEEK'S CHANGES

Prices are given in the sequence Trade Price per Doz.; Purchase Tax per Doz.; Retail Price. Bold upright figures (2 9) in the retail price column indicate that the price is subject to resale price maintenance; italic figures (2 9) that it is recommended by the manufacturers; and light upright figures (2 9) that it is "notional" as a guide to the retailer in determining his own retail price.

A	Alcopar (208 BW)	dispersible granules 5gm	1 24 0	—	3 0	250mgm 100	20	0ea	—	30 0
			25 43 4ea	—	65 0		500	94 0ea	—	141 0
							1000	186 0ea	—	279 0
R	Bonjela (770 LP)	gel 10gm	32 6	—	3 10	D	Dulsils (751 LL)			
A	Brontyl 300 (769 LH)	tablets	30 62 0	—	7 9	I	Dulsils (234 Cartwright)			
			100 184 0	—	23 0	A	Genexol (1045 R)			
							cones	12 47 6	—	6 0
							cream	12 50 6	—	6 3
							Ilosone (413 Lilly) TS			
							tablets 500mgm	12 19 10ea	—	29 9
							● Iplexon (179 BDH)			
							● Ivax (147 Boots)			
							● 170mils	92 0	—	11 6
							● 6oz	—	—	—
							● Katorin (147 Boots)			
							● oral solution			
							● 250mils	5 0ea	—	7 6
							● 1 litre	16 0ea	—	24 0
							● 8oz and 40oz	—	—	—
							● Maws (810 Maw)			
							● Simpla tablets	12 22 0	—	2 9
							● New Dew (751 LL)			
							● New Dew (234 Cartwright)			

	Nomaze (1530 Fisons) †s4B				
	Plastules (1352 Wyeth)				
D	plain	500			
D	liver extract	250			
A	Rendells (1045 R)				
	cream	32 0	—	4 0	
	foam	30 0	—	3 9	
	gells	12 34 0	—	4 6	
	pepparies	6 20 3	—	2 9	
		12 39 6	—	5 0	
	vaginal suppositories	39 6	14 6	6 2 1/2	
D	Sweetex (751 LL)				
I	Sweetex (234 Cartwright)				
	liquid	1oz 24 9	—	2 9	
	powder	4oz 31 6	—	3 6	
		1 lb 90 0	—	10 0	
	tablets	100 10 6	—	1 2	
		200 18 0	—	2 0	
		500 38 3	—	4 3	
D	Top Score (751 LL)				
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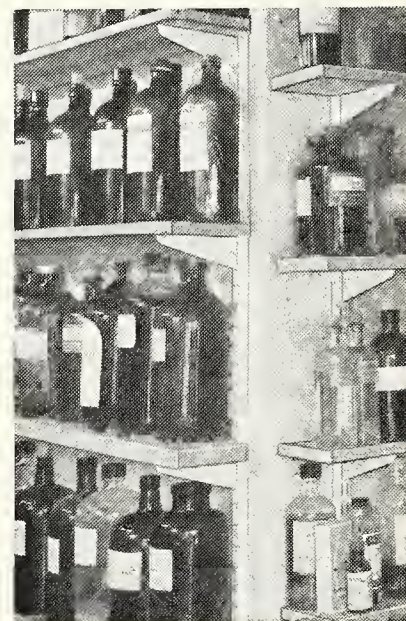
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March 3 is All Too Near

OVERNIGHT on March 3 pharmacists throughout the United Kingdom will have to switch their minds from dispensing medicines in drachms and grains to dispensing in mils and milligrammes, and from labelling liquid dosages in teaspoonfuls and tablespoonfuls to labelling in multiples of 5 mils.

To pharmacists who have, over years of practical pharmacy, achieved the speeds almost of reflexes in calculating and dispensing, the change-over is going to produce a nightmare of difficulties until new skills are acquired and reflexes are reconditioned.

It is also going to be fraught with problems of explaining to customers and patients that, if an imperial-size bottle has to be used, it leaves a gap though the prescribed quantity of medicine has been put into it. Customers will also have to be made to understand that the new doses must be adhered to, and that teaspoons and tablespoons must never again be used for measuring medicines. For pharmacists it needs to be emphasised that preparations in the new British National Formulary are not (except for a few) equivalent to their counterparts in the previous edition but have been completely reformulated. As pointed out in Mr. Hadgraft's review of the B.N.F. (see *C. & D.*, January 11, p. 34), all adult mixtures become stronger than previously and it is important that the public should be made aware of the change. There will also be problems arising from the fact that certain proprietary preparations not having a dose-volume of 5 or 10 mils will have to be diluted to the appropriate dose-volume with perhaps unfamiliar diluents. The pharmacist must be alert to the fact that in such circumstances the dilution must be freshly prepared and labelled to indicate that it is usable only within fourteen days of being issued. A leaflet is likely to be available from the Ministry of Health putting the facts simply before them, but every pharmacist will have his own experience to tell him that he will be called upon to explain the situation and must be ready to repeat his explanation next time, and the next, until eventually the lay public have become as familiar with the new system as they were with the old.

It is a great, great pity that the necessary ECN setting out the detailed conditions of the change-over for prescribers and pharmacists is not yet available. They are believed to make up a substantial booklet and it is understood differences of opinion over its phrasing have had to be argued and reconciled. That is not altogether surprising, since there are many complexities in the

switch to metric, and no doubt other problems will be thrown up in practice. Its unfortunate aspect is that delayed publication leaves so little time for those concerned to assimilate the provisions and even less for them to put forward, and be given answers to, problems that emerge for them that may not have occurred to the compilers of the booklet, no matter what foresight and imagination have been displayed in its production.

It is our wish and hope to play our part in making the change work as smoothly and harmoniously as possible, and we shall try to answer or find answers for any difficulties put to us by subscribers.

In the meantime pharmacists should be preparing themselves by running down existing labels and replacing them with wording adapted to the new situation, as well as with adequate stocks of metric containers, etc., so far as they have become commercially available. Any who have not yet equipped themselves with metric weights and measures are reminded that they have only six weeks in which to do so.

Delinquency in the Professions

It has become a *cliché*, almost a bore, that there are black sheep in every profession, but there are sad signs that in recent years unscrupulous members of professional callings, while they may not have been more numerous (it would be hard to prove any numerical comparison) have often been blacker than black.

The special shock of hearing about a crooked lawyer was that the whole field of his responsibilities seemed concerned with proper standards of conduct as between one person or social group and another. In the medical field it is the popular belief that every doctor is dedicated to the Hippocratic oath, and there is an intuitive repugnance to the idea that a doctor should exploit addiction for personal gain, as happened in a recent much publicised case, and even incite to murder in doing so, as has happened even more recently.

Correspondingly there must have been shock bordering upon alarm among the general public that a pharmacist should be convicted of illicit manufacture and distribution of that most potent of modern biochemical discoveries, LSD.

The *Sunday Times* has given exhaustive details in its issue of January 12 of frauds in an area that would, only a few years back, have been deemed an entirely improbable field for alleged criminal activities, namely the manufacture and sale of "ethical" pharmaceuticals. That newspaper's story is of the performance by a "cheap drug entrepreneur" of a sort of three-card trick magnified to a manufacturing scale, and any chemist who has not read the story would do well to possess himself of a copy of the paper and study it. For chemists, or some of them, may have been among the victims of his eye-dazzling and mind-bemusing machinations. Far from leading on to a *dénouement* in which right triumphs and evil is defeated, the saga seems about to end with the perpetrator's escape from justice and from Britain in order to start the whole process over again in a new territory, with a "world-weary investigator" from the Board of Trade saying [as reported], "Terribly sorry, old boy. Our powers are limited, you know. There's nothing we can do."

For the conditions in which Zygmunt Sieczko has been able to operate with apparent immunity and with such fantastic profit to himself many would blame a

former Minister of Health, whose use of Section 46 of the Patents Act for a purpose for which it was not intended saved the Government a sum of money, but at the cost of official respect for its (or its predecessors') statutes. In its train has come "the silence of the doctors [and regretfully of some chemists] who bought the stuff." We hope the lesson will drive home.

Formula Influences Response

FURTHER evidence that "generic equivalence" is not the same thing as "therapeutic equivalence" in a drug preparation has been obtained by Dr. A. B. Varley of Upjohn Co., Kalamazoo, Michigan, U.S.A. (*J. Amer. med. Ass.*, 1968, **206**, 1745). The pharmacy department of Dr. Varley's company prepared two batches of tolbutamide tablets each containing the same amount of drug. One batch was the commercial product, the other identical in all respects except that the amount of disintegrant was halved. Apart from higher disintegration and dissolution times, both formulations met completely the tolbutamide specifications of the United States Pharmacopeia. A double-blind, cross-over study of the formulations was then carried out in healthy subjects, and the experimental formulation, though chemically equivalent to the commercial, was clearly not equivalent in terms of drug availability (as measured by serum drug levels) or of therapeutic efficacy (as measured by hypoglycaemic response).

Conceding that objections could be raised to the design of the study, Dr. Varley remains convinced that considerable differences can be produced in both the availability of drug to the human patient, and in its eventual therapeutic usefulness, by making formulation changes small enough to be within the U.S.P. chemical equivalence standards. The ideal criterion for establishing therapeutic equivalence would be, he agrees, a trial of comparative efficacy in disease-afflicted patients. But, as that is probably not feasible in today's clinical research methodology and under standards of ethical medical research, and as chemical or U.S.P. specifications are not satisfactory, Dr. Varley concludes that drug availability is the most feasible method at present.

In a supporting editorial, *J.A.M.A.* criticises the demand that the prescribing and use of generic drugs should be encouraged. "Unless a preparation has been proven to be as effective as the standardised preparation, it should be considered as a possible source of therapeutic non-equivalence." A similar position has long been adopted by some workers in Britain, prominent among them Professor A. H. Beckett, head of the Chelsea school of pharmacy. At the Birmingham meeting of the British Pharmaceutical Conference Professor Beckett said (*C. & D.* September 28, 1968, p. 313): "Correct drug content in different preparations, or simple compliance with 'official' standards, does not guarantee similar biological availability of the drug in man. Thus generic 'equivalents' must not be assumed to give the same performance as the brand-name product that has been tested clinically."

Unfortunately for the research-based sections of the pharmaceutical industry, the evidence and opinion so far produced have not yet swayed the thinking of Governmental committees. In the current *Proplist*, the Standing Joint Committee on the Classification of Proprietary Preparations recommends that "in normal circumstances it increases prescribing efficiency if the

doctor uses the approved or official name of a drug when writing prescriptions. It is then open to the pharmacist to dispense the preparation which he has immediately available . . ." And the pharmacist, of course, will probably be paid for a low-price version, if marketed.

If that "official" attitude is to continue, it is to be hoped that the sections of the Medicines Act requiring the licensing authority to take into account the efficacy of products will lead to "equivalence" being based upon more sound principles than appear at present.

"Wide Consultative Process"

OUR leader of January 4, "Hamlet Without the Prince," seems by an indirect route to have provoked the Irish Minister for Health to make some rejoinder, if hardly a new or informative contribution on the point at issue. Readers will recall that we commented on the failure of the Minister to appoint a pharmacist on the working party set up to advise him on drug abuse and related problems in the Irish Republic. The leader was featured in the January 10 issue of the *Irish Independent* and the registrar of the Pharmaceutical Society of Ireland, Mr. J. G. Coleman, in a comment, said: "I have seen the editorial and it shows quite clearly that the editor is *au fait* with conditions in this country." The Department's spokesman said:—

THE Minister for Health, in constituting bodies to advise him on specific problems upon which he feels it necessary to have advice, has regard particularly to two principal factors: (1), the aspects of the problems which are causing concern and (2), the necessity to ensure that the desire to have wide representation of interests involved does not lead to a body which is numerically too large to permit of its working effectively. The Minister wishes to make it clear, however, that such Boards are in no way limited as to the information they may seek or the bodies they may consult. It is to be remembered too that in the detailed examination given to reports of advisory bodies it is customary to make use of a wide consultative process before any recommendations are given effect.

To us it appears that, on this particular subject, any advisory body that has no pharmacist upon it is by that amount numerically too small; also that, at any later stage, the greater the extent to which consultation is widened the less the effect each interest consulted may be expected to exert. And pharmacy's viewpoint should be regarded as being of prime importance.

A PHARMACIST'S ANTHOLOGY THE BALD TRUTH

Verses by LUCIO published some years ago in the *Manchester Guardian* (as it then was).

*Now fades the foliage from the thinning thatch
And o'er the pate a shining sparseness spreads,
Save where the vitamin has struck a patch
And woos lost love-locks back to barren heads.*

*Do I believe it? Am I, then, so green?
Not if baldness be the victim's share,
Full many a head is born to shine serene
Without its crop of now deserted hair.*

*Can bio-chemists at long care and cost
Reclothe the sites now seen as "thin on top"?
Can vitamins resuscitate the lost,
Or hormones expedite a second crop?*

*The boasts of science, triumphs of research,
And vitamins, from A to H installed,
Must leave, still uncorrected, in the lurch,
The unembellished contours of the bald.*

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

RURAL DISPENSING: MINISTER TO BE SEEN

Wording of Department's leaflet on metrication agreed

MR. DAVID ENNALS (Minister of State) is to meet representatives of the Pharmaceutical Society's Council and of the Central N.H.S. (Chemist Contractors) Committee on the question of dispensing in rural areas. That information was received shortly after the Council's Practice Committee (chairman MR. J. P. KERR) had met in advance of the January Council meeting of the Society on January 7-8 and had decided to write again to express concern at the delay in reaching agreement.

A meeting was reported between representatives of rural pharmacists and the Council on December 4, 1968. It was then pointed out that the Council was taking positive action on the question of dispensing by doctors in rural areas and representatives agreed to consider the points that had been put forward.

The Committee also discussed the change-over to the use of the metric system in dispensing and agreed that details of arrangements applicable to N.H.S. dispensing for the conversion of prescribed imperial quantities to dispensed metric quantities should also be applied to the dispensing of private prescriptions. At a meeting with the Department of Health and Social Security on January 3 the wording of a leaflet—designed for distribution by pharmacists—explaining to patients the new 5-mil spoon and the measurement of doses, had been agreed. It was recommended that the Department of Health should be asked to confirm that it would be prepared to supply, on request, quantities of the leaflets to chemists who were not contractors under N.H.S. It was also recommended that the Society's views on how prescribers could best help pharmacists in the change-over period should be explained to the British Medical Association. In reply to a question Mr. Kerr said that supplies of the leaflets were expected to continue to be available for two years.

The Committee recommended asking the Department of Health and Social Security to confirm that the Noel Hall working party on the hospital pharmaceutical service would be asked to consider the Zuckerman Committee's recommendations as they affected that service.

Pharmacy in Health Centre Design

It was recommended that Mr. Kerr and Mr. J. Ferguson should represent the Society to discuss informally with the Department of Health and Social Security provisions that should be made for pharmaceutical services in the design guide for health centres. The Society's proposals for detailed implementation of the instructions for "N.P." labelling of dispensed medicines were approved, and copies sent to the secretaries of the Central N.H.S. Committee and Pharmaceutical General Council (Scotland). A meeting was to be held with the Department of Health on January 22 to discuss a memorandum submitted by the Society, on the supply of oral contraceptive tablets. The recommendations were adopted.

The minutes of the Education Committee, presented by the chairman (Professor Beckett) recommended, and the Council approved, that John Michael Harris should be designated a Fellow of the Society.

The minutes of the Organisation Committee presented by the chairman (MR. J. C. BLOOMFIELD), recorded that the publicity group had decided special arrangements should be made by the Society to inform the public about implications of the introduction of the metric system into prescribing and dispensing on March 3. A national Press conference would be held and special information sent to branch press officers. The Committee also decided that the theme of the regional conference to be held at Chester on March 16 should be "The Society and your Professional

Status." The following members were reported appointed to the Science Committee: Mr. J. E. Balmford, Professor A. H. Beckett, Mr. S. Blum, Dr. W. Lane-Petter, Mr. K. A. Lees, Mr. J. A. Myers, Mr. D. E. Sparshott, Dr. M. Weatherall (*chairman*: Dr. Lane-Petter).

The recommendations were adopted.

The minutes of the Benevolent Fund Committee were presented by the chairman (MISS M. A. BURR) and adopted.

The minutes of the Law Committee (chairman, MR. D. E. SPARSHOTT), reported that, during November 1968 the premises of 1,276 authorised sellers and 167 traders had been visited by the Society's inspectors. The Committee considered four cases of alleged infringements of the law relating to pharmacy and recommended appropriate action in each case, and noted with concern an increasing number of illegal sales of strychnine on out-of-date permits. It was reported that the Society had been represented at a meeting of the Home Office Drugs Branch and bodies representing pharmaceutical interests at which the preparation of draft regulations for the safekeeping of drugs under the Dangerous Drugs Act, 1967, was discussed.

The Council adopted the recommendations.

A Local News Item

The minutes of the Ethical Committee, presented by its chairman (MR. A. ALDINGTON), recorded that a superintendent pharmacist had been asked to comment on a write-up in a local evening newspaper concerning his company's new pharmacy at Brighton. In his letter the superintendent had said the newspaper report had been based on a discussion between a reporter and the chairman of the company, of which his own company was a subsidiary, and that it had not been seen by anyone representing the company before it had been published. The opening of the pharmacy had been a news item of local interest. The Council statement upon advertising by pharmacists had been issued in 1964, and he suggested that it should be looked at again in the light of the Dickson judgement and perhaps reissued with modifications. During discussion by the Committee it was remarked that a mention, in the write-up, that the first prescription dispensed at the pharmacy was for Hong Kong 'flu vaccine constituted advertising of dispensing services. It was recommended that the superintendent pharmacist should be informed that (a) the Dickson judgment did not apply; and (b) his assurance concerning the company's desire to be in step with the Society's views was welcomed. Because of insufficient time, the Committee was unable to consider matters concerning dividend stamps and recommended referring the matter to its next meeting.

The recommendations were adopted.

Recruitment

The number of first-year students enrolled at schools of pharmacy in the Autumn session, 1968, as reported to the Council at its December 1968 meeting, was higher than in the previous two years—882 against 803 in 1967 and 799 in 1966. Figure for all—except research—students was 2,293, against 2,341 in 1967 (the 1965 intake—908—had been much higher than in subsequent years. In 1968 there were only fourteen vacant places, against 114 the previous year. Research students numbered 433 (347), degree students 2,255 (2,127) and diploma students thirty-eight (214). Male students from within the United Kingdom numbered 1,181 (1,225) and females 817 (846). Overseas male and female students numbered 295 against 270 in 1967. One school, Leeds, accepted no new students in 1968.

DRUG INTERACTIONS TABULATED

Interference with, or modification, of the action of a drug by the presence of another in the patient's body is a possibility that has come to be recognised and is a field to which much study needs to be devoted. The table here given brings up to date a similar table first published in the *C. & D. Diary and Year Book 1967*.

Drug	Influenced by	Effects of combination
Amphetamine and related drugs	Monoamine-oxidase inhibitors	The monoamine-oxidase inhibitors increase the hypertensive and central stimulant actions of the amphetamines, and a hypertensive crisis may result, caused by the sudden release of bound catecholamines and an increased sensitivity to these amines.
Anticoagulants of coumarin type	Anabolic steroids	Non-virilising and anabolic steroids may increase the anticoagulant action of the coumarin derivatives, and may be associated with the activity of hepatic enzymes.
	Barbiturates	Barbiturates, especially after long administration, antagonise the action of oral anticoagulants of the coumarin group, and the effect may be due to an increased breakdown of the drug by enzyme activation. A similar response may occur with other sedatives such as glutethimide.
	Chloral hydrate	Chloral hydrate stimulates certain drug-metabolising enzymes, and larger doses of drugs so metabolised, such as bishydroxycoumarin, may be required to maintain an effective plasma level. If the chloral is then suddenly withdrawn, the increased plasma level of anticoagulant thus induced may lead to an increase in prothrombin time, with risk of haemorrhagic complications.
	Phenylbutazone and related drugs, i.e. sulphinpyrazone	These drugs increase the prothrombin time of the blood, possibly by competitive affinity for receptor sites, and consequent release of anticoagulant bound to serum proteins.
	Salicylates	Salicylates in full doses prolong the clotting time of the blood by influencing the prothrombin levels. The extension of the clotting time may occur more rapidly during combined treatment, possibly by displacing some of the anticoagulant bound to serum protein.
Antihistamines	Alcohol	Antihistamines in general have a depressant effect on the C.N.S., exhibited by drowsiness. A similar effect is caused by alcohol, and combined use may result in an excessive depressant response.
Barbiturates	Alcohol	Alcohol appears to potentiate some of the effects of the barbiturates, and severe respiratory depression may occur with high doses.
	Amphetamines and chemically related C.N.S. stimulants	C.N.S. stimulants and barbiturates act on different centres of the brain, and are not simply antagonistic. The combined effects exhibit a distinct difference from those produced by either drug alone.
	Anticoagulants of the coumarin type	The effect of orally-active drugs derived from coumarin are reduced by barbiturates. The effects may be mediated by a stimulation of enzymatic breakdown of the anticoagulant.
	Phenytoin	Although phenytoin and phenobarbitone are used together in the treatment of epilepsy, usually when the sedative effects of higher doses of phenobarbitone are too marked, or the response to phenytoin alone is inadequate, it is of interest to note that barbiturates reduce the duration of action of phenytoin. The reduction of blood level of phenytoin may be due to a stimulation of the activity of drug-metabolising enzymes. This metabolic breakdown process may apply to other substances, as barbiturates can also lower the blood levels of griseofulvin.
Chlorpromazine and similar phenothiazine-derivatives	Ganglion and neurone blocking agents	Chlorpromazine has adrenolytic properties, and may cause a peripheral vasodilatation and fall in blood pressure. Although this fall in the blood pressure may also be associated with the central effects of the phenothiazine derivatives, the additive effects of ganglion and neurone blocking agents should be kept in mind during combined therapy.
Clofibrate	Oral anticoagulants	Clofibrate lowers the cholesterol level of the blood and is used in atherosclerosis and coronary-artery diseases. Some potentiation of the effects of anticoagulant drugs has been observed, possibly due to displacement from protein binding, and the potentiation of other protein-bound drugs is being investigated. When both clofibrate and an oral anticoagulant are given concurrently, the dose of the latter should be halved, and adjusted later according to response.
Corticosteroids	Anaesthetics	Administration of corticosteroids depresses the activity of the adrenal cortex, and reserves of corticosteroids. Any situation of stress, such as an anaesthetic and operation, increases the need for steroids, and may result in a state of acute adrenal cortex insufficiency. Any patient already receiving corticosteroids will require an increased dose in such circumstances.
Digitalis	Thiazide diuretics	The action of digitalis is potentiated by a reduction in the potassium level of the blood cells, which increases the sensitivity of cardiac muscle. An increase in urinary excretion of potassium occurs during treatment with thiazide diuretics, and these drugs therefore have an indirect potentiating action on digitalis. Combined administration usually requires an adjustment of dose.
	Reserpine	One of the effects of digitalis is a slowing of the heart rate (bradycardia), which is a secondary effect and follows the improvement of cardiac output. Bradycardia is also an effect of reserpine, and the administration of reserpine to an already digitalised patient may produce an undue slowing of the heart, and occasionally cardiac arrhythmia.

Drug	Influenced by	Effects of combination
Ergot alkaloids	Pressor drugs	Ergometrine and ergotamine, apart from their main pharmacological actions, have vasoconstrictor properties, and may cause a rise in blood pressure. This side effect is increased by pressor drugs (sympathomimetics), and combined therapy requires care.
Griseofulvin	Phenobarbitone	The combined administration of these drugs results in an increase in the rate of metabolism of griseofulvin with a lowering of the blood level unless the dose is increased.
Hypotensive drugs of ganglion and neurone blocking types	Amphetamines and related drugs	Pressor drugs of the amphetamine type can reverse the hypotensive action of the blocking agents by release of catecholamines.
	Chlorpromazine and related drugs	Chlorpromazine may cause a slight fall in blood pressure by inducing a peripheral vasodilatation, as well as by a central depressant action. This effect may influence to some extent the hypotensive effects of the ganglion and neurone blocking agents during combined therapy.
	Imipramine	Although imipramine occasionally exhibits a blood-pressure lowering action, it may reverse the action of more powerful hypotensive drugs such as guanethidine.
	Monoamine-oxidase inhibitors	The hypotensive effects of the blocking agents are increased by monoamine-oxidase inhibitors, and are associated with an increased inhibition of the activity of the sympathetic nervous system.
	Thiazide diuretics	The effects of both ganglion blocking agents and sympathetic neurone blocking agents are potentiated by the thiazide diuretics. This potentiation is of considerable therapeutic value, as it enables a full response to be achieved with smaller doses, with a consequent reduction in side effects.
Imipramine Amitriptyline Nortriptyline and related drugs	Monoamine-oxidase inhibitors	Combined treatment with these drugs results in a general potentiation of effects, with hyperpyrexia and hyperexcitability, and fatalities have occurred from such side effects. These reactions appear to be due to an increased sensitivity of the receptor sites in the central nervous system and, owing to the slow rate of excretion of most monoamine-oxidase inhibitors, at least ten days should elapse before transferring a patient under treatment with such drugs to imipramine or a related drug. Imipramine is excreted more rapidly, so that a change from imipramine to a monoamine-oxidase inhibitor can be effected more easily.
	Neurone blocking agents	The hypotensive effects of guanethidine and related drugs are antagonised by sympathomimetic drugs, and cases of antagonism by imipramine have also been reported.
Monoamine-oxidase inhibitors	Amphetamine and other C.N.S. stimulants. This group may include various appetite depressant drugs, sympathomimetic amines and related pressor drugs of the adrenaline type; and possibly caffeine	The hypertensive action of amphetamine and related drugs is markedly increased by monoamine-oxidase inhibitors, and sudden tachycardia, rise in the blood pressure, and severe headache may occur. The peripheral vasoconstriction may cause the patient to go pale and cold, with a sense of impending death. These effects are due partly to the release of large amounts of catecholamines. The hypertensive response resembles that of pheochromocytoma, which is an adrenaline-releasing tumour of the adrenal gland.
	Benzhexol and similar drugs used to control the tremor and rigidity of Parkinsonism	These drugs have a certain stimulatory effect on the C.N.S. and there may be some mutual potentiation of action if given at the same time as one of the monoamine-oxidase inhibitor group of anti-depressants.
	Chlorothiazide and related thiazide diuretics	The hypotensive action of the monoamine-oxidase inhibitors is increased by combined administration with a thiazide, possibly by a further depression of the sympathetic transmission system.
	Ganglion and sympathetic neurone blocking agents	The hypotensive effect of ganglion blocking agents (e.g. mecamlamine) and certain other hypotensive drugs such as methyldopa may be increased by concurrent administration of monoamine-oxidase inhibitors. This effect is probably due to a further inhibition of sympathetic transmission. The effects of guanethidine tend to be antagonised and care should be taken with methyldopa, as animal experiments suggest that combined treatment may cause marked central stimulation, resembling amphetamine overdose.
	Imipramine	Combined administration potentiates the action of both types of drug. Described more fully under imipramine.
	Insulin	Monoamine oxidase inhibitors bring about disturbances of metabolism and endocrine activity. These effects are presumably mediated by the hypothalamus, and careful regulation and adjustment of dose is necessary when combined administration with insulin and other drugs affecting metabolism is attempted.
	Narcotic analgesics, i.e. morphine, pethidine and related drugs	The effects of opiates are increased by combined treatment, and the reverse is also true, so that a hypertensive crisis may occur, probably due to a sudden release of stored catecholamines into the blood stream. This effect may be a serious complication in emergency surgery, as the blood pressure may become very unstable during anaesthesia.
	Tolbutamide and some other sulphonylureas	The hypoglycaemic effects of tolbutamide and related drugs are augmented by the monoamine-oxidase inhibitors. Monoamine oxidase plays an important part in the enzyme activity of the liver, and combined treatment may increase hepatic glycolysis.
Morphine, pethidine and similar narcotics	Monoamine-oxidase inhibitors	The effects of narcotic analgesics are markedly increased by monoamine-oxidase inhibitors. This potentiation is of great importance in anaesthesia and surgery, as the blood pressure may show marked fluctuations, with respiratory depression. The drugs should be stopped and operation postponed if possible for 14 days
Neomycin	Tubocurarine and related muscle relaxants	Neomycin, streptomycin and kanamycin have curare-like properties. These are normally of little significance, but if the antibiotics are absorbed the action of tubocurarine (q.v.) and related muscle relaxants may be increased.

Drug	Influenced by	Effects of combination
Neostigmine and other anticholinesterases	Tubocurarine and related muscle relaxants Suxamethonium	The muscle-relaxant actions of tubocurarine and gallamine are reversed by neostigmine, and the mechanism is described under tubocurarine (q.v.). Neostigmine and related drugs intensify the muscle-relaxant action of suxamethonium, and thus differ sharply in their effects on other muscle relaxants. There is no physiological antagonist of suxamethonium, but fortunately the muscle-relaxant action is normally so brief that an antagonist is rarely required.
Penicillin	Chloramphenicol and tetracyclines	Chloramphenicol is a strictly bacteriostatic drug against almost all bacterial organisms, and the tetracyclines are also largely bacteriostatic. This effect is almost independent of the concentration of the antibiotic, but penicillin may be bacteriostatic or bactericidal according to the concentration. With the doses now used, penicillin is regarded as a bactericidal drug, chiefly active against growing cells. If growth is inhibited by the addition of chloramphenicol or tetracycline, the killing power of penicillin is reduced. For that reason, mixtures of bacteriostatic and bactericidal antibiotics may be antagonistic in their action.
Phenylbutazone and related substances	Long-acting sulphonamides	Phenylbutazone is an example of a drug that becomes highly and tightly bound to serum albumin. About 98 per cent. of the drug is bound, and the long action of phenylbutazone is probably associated with its slow release from serum protein. This affinity for albumin enables phenylbutazone to displace less tightly bound drugs, such as the long-acting sulphonamides. The displaced drug is metabolised very slowly, and in consequence diffuses into the tissues, where an unusually high concentration of sulphonamide may be found.
	Anticoagulants of the coumarin type	Orally active anticoagulants of the coumarin series are bound to serum protein, but can be displaced by phenylbutazone. The increase in concentration of circulating anticoagulant results in an extension of the clotting time, and a risk of haemorrhage.
	Tolbutamide	Tolbutamide can be displaced from combination with serum proteins by phenylbutazone and other drugs that have an increased capacity for protein binding. The increase in the blood levels of unbound tolbutamide increases the hypoglycaemic action, as occurs with salicylates (q.v.)
Propranolol	Anaesthetics	As a β -adrenergic blocking agent, propranolol reduces the "sympathetic drive" thought essential to protect the myocardium against the weakening effects of chloroform or other anaesthesia and should not therefore be given with such anaesthesia. The drug is, however, used to abolish cardiac arrhythmias occurring during anaesthesia with other compounds. This is found most frequently with hydrocarbon anaesthetics such as cyclopropane, and may be increased and intensified if sympathomimetic drugs are used to prevent or treat a fall in blood pressure.
	Anti-diabetic drugs	Propranolol potentiates the action of both insulin and the oral hypoglycaemic drugs, probably by a blocking action on the blood-sugar release mechanism that normally functions as the blood sugar level starts to fall.
Reserpine	Digitalis	Both reserpine and digitalis can cause cardiac slowing (bradycardia). The effects may be additive, and care is necessary if these drugs are given together.
Salicylates	Anticoagulants of coumarin type	The clotting time of blood is increased by combined anticoagulant and salicylate treatment. The effect is due to displacement or release of anticoagulant bound to serum protein.
	Insulin	Salicylates lower the blood sugar by an increased utilisation of glucose by the peripheral tissues, but some decrease of carbohydrate synthesis may occur. In diabetes, salicylates may therefore have a hypoglycaemic effect of importance. It is of interest that salicylates were once used in the treatment of diabetes in the pre-insulin era.
	Methotrexate	Methotrexate is a folic acid antagonist used in the treatment of leukaemia. It becomes bound, in part at least, to serum albumin, but the bound fraction can be displaced by several other drugs, notably salicylates and sulphonamides. As methotrexate is given in doses approaching those causing toxicity, an increased blood level due to release of the bound drug could precipitate toxic symptoms.
	Probenicid	Probenicid promotes the excretion of uric acid by inhibiting the tubular reabsorption of urates. That action is antagonised by salicylates, and the regular use of salicylate-containing analgesics during probenicid therapy will nullify the urate-excretion effects. The occasional use of acetyl-salicylic acid for headache, etc., has no significant effect.
	Tolbutamide	Tolbutamide becomes bound in part to serum protein, but the bound fragment can be displaced by salicylates, leading to a high blood level of unbound drug. That displacement leads to an increased hypoglycaemic action, and mixed therapy is potentially dangerous, as it may precipitate a hypoglycaemic coma. Phenylbutazone and some highly bound sulphonamides have a similar power of displacing tolbutamide from protein-combination, and can increase the hypoglycaemic action.
Suxamethonium	Neostigmine and other anticholinesterases	Suxamethonium produces its muscle-relaxant effects by depolarising the end plate of the nerve, and thus inhibits normal muscular contraction. Acetylcholine produces a similar depolarisation, but the action is brief, as the compound is rapidly hydrolysed by cholinesterase, leaving the muscle free to respond to further stimulation. Any drug, such as neostigmine, that inhibits the action of cholinesterase will extend the action of depolarising muscle relaxants such as suxamethonium; an action the reverse of that against the tubocurarine group.
	Centrally acting muscle relaxants	Several centrally acting drugs of the tranquillising type have muscle-relaxant properties. As suxamethonium acts peripherally, there is a possibility that



The Cow & Gate story... as natural—and as effective— as the milk food itself

Cow & Gate Milk Food contains all the nourishment a growing baby needs, and Cow & Gate Milk Food is smooth blended for faster, easier mixing. Good and natural and effective. That's Cow & Gate.

That goes for the new Cow & Gate advertising, too.

Now, Cow & Gate's soft, sympathetic advertising theme appears in full pages in *WOMAN* and *WOMAN'S OWN*; the supporting campaign continues in Baby journals and Medical and Nursing magazines; and there's special display material for you to use at the point-of-sale.

So when you stock Cow & Gate, you're sure of effective, persuasive advertising support to help you sell.

COW & GATE
The milk food of Royal babies

Cow & Gate, Guildford, Surrey.

A little cold logic from Dulsils.

We're doing all we can to help you push up your profits on Dulsils this winter with our new advertising message. This explains to cold sufferers how Dulsils can alleviate many of the more unpleasant features of a cold. And it is going to bring in many new buyers for Dulsils. You'll make extra sales to everyone suffering from those particularly unpleasant concomitants of a cold . . . and some time or other during the winter, that's just about everyone.

The Dulsils formula

does two jobs to soothe sore throats. Its two powerful bactericides, dichlorobenzyl alcohol and amyl-meta-cresol, kill all common sore throat germs within 60 seconds.

The inclusion of dextromethorphan hydrobromide means that Dulsils also control the cough that can often further irritate an already inflamed throat.

You can recommend Dulsils with confidence for all sore throats, including those symptomatic of the common cold.

National advertising

We're beaming our new message straight at an enormous audience throughout the coughs, colds and sore throats season: we're taking large spaces in Sunday Express, TV Times right through to April to tell the Dulsils story.

Back up our advertising support with show-cards on your counter to remind cold sufferers that Dulsils soothe all sore throats.

And make sure you're able to meet the demand.



Sole Agent: W. B. Cartwright, Rawdon, Leeds. LS19 7YA. Tel: 0973-7 2143

Drug	Influenced by	Effects of combination
Suxamethonium (continued)		in some cases combined treatment may have a potentiating effect, leading to prolonged apnoea.
Thiazide diuretics	Digitalis	Thiazide diuretics bring about a marked increase in the urinary excretion of salts and water. The body has ample reserves of sodium, but few reserves of potassium, and a reduction in potassium levels of the blood may result in an increased sensitivity of the cardiac muscle to digitalis. The effect may resemble increasing heart failure, but treatment requires a reduction in dose of digitalis and an increase in the potassium intake.
	Hypotensive drugs	Chlorothiazide and related diuretics potentiate the action of ganglion and sympathetic neurone blocking agents, and permit a lowering of blood pressure with reduced doses of hypotensive drugs. The increased excretion of potassium induced by the thiazide diuretics is a potential danger, especially if digitalis is also given.
	Monoamine-oxidase inhibitors	The hypotensive action of the thiazides is also increased by the monoamine-oxidase inhibitors.
Tolbutamide	Monoamine-oxidase inhibitors	The hypoglycaemic effects of tolbutamide may be increased if monoamine-oxidase inhibitors are given concurrently. This effect may be mediated by an effect on the liver enzymes, resulting in increased glycolysis.
	Salicylates and sulphonamides	These drugs can displace tolbutamide bound to serum proteins, thus increasing the blood level of free drug, with a consequent increase in the hypoglycaemic action.
Tubocurarine and related muscle relaxants	Neomycin, streptomycin, and kanamycin	Solutions of neomycin are sometimes used to irrigate the peritoneal cavity and this may lead to complications with anaesthetics. Neomycin and related antibiotics have certain curare-like properties, and may cause respiratory arrest if sufficient of the drug is absorbed to produce a neuromuscular blockade. The action is unlikely to follow oral administration of the drug, but a rise in neomycin levels may occur if renal function is impaired, and may complicate anaesthesia by potentiating the action of other muscle relaxants.
	Neostigmine and similar anticholinesterases	Tubocurarine and associated neuromuscular blocking agents produce their effects by competing for cholinergic sites at the myoneural junction, and blocking the action of acetylcholine. That compound is rapidly broken down in the body by cholinesterases, but neostigmine inhibits the enzymatic breakdown, and thus allows the concentration of acetylcholine to rise. With an adequate dose of neostigmine the amount of acetylcholine increases to the point at which the relaxant effects of tubocurarine are overcome. Neostigmine thus potentiates the action of natural acetylcholine and is a valuable drug in controlling the respiratory depression caused by tubocurarine and in reversing the relaxant effect at the completion of the operation. It does not antagonise the action of suxamethonium except possibly when that drug causes a prolonged apnoea.
	Quinidine	Quinidine may increase the relaxant action of tubocurarine, and if given soon after operation for disturbances of cardiac rhythm, it may supplement the action of any residual tubocurarine, with a return of the muscle-relaxant action.
Warfarin	glutethimide, meprobamate phenytoin, clofibrate	The anticoagulant action of warfarin may be antagonised by sedatives such as glutethimide, and meprobamate, as well as by phenytoin. Clofibrate may have the reverse action, and potentiate the anticoagulant response.

Drug	See also under	Drug	See also under	Drug	See also under
Amphetamines	Barbiturates, hypotensive drugs	Chloramphenicol	Penicillin	Phenobarbitone	Griseofulvin
Anabolic steroids	Anticoagulants	Clofibrate	Anticoagulants, warfarin	Phenytoin	Barbiturates, warfarin
Anaesthetics	Corticosteroids, pro-pranolol	Glutethamide	Warfarin	Probenecid	Salicylates
Benzhexol	Monoamine-oxidase inhibitors	Hypoglycaemic agents	Propranolol	Quinidine	Tubocurarine
Chloral hydrate	Anticoagulants	Insulin	Salicylates, monoamine-oxidase inhibitors	Streptomycin	Tubocurarine
		Kanamycin	Tubocurarine	Sulphonamides, long acting	Phenylbutazone
		Meprobamate	Warfarin	Tetracyclines	Penicillin
		Methotrexate	Salicylates	Tolbutamide	Phenylbutazone

From Apothecary to Pharmacist—Series 2
by T. D. WHITTET, B.SC., PH.D., F.P.S., F.R.I.C., D.B.A.

LUXEMBOURG

IN Luxembourg the German titles of *Apotheke* and *Apotheker* were used before 1795. From that date until 1815 the French *Pharmacie* for pharmacy and *Apothicaire* for pharmacist became general. Between 1815 and 1905 the pharmacy was called *Apdikt* and the pharmacist *Apdikter*, terms which I have not found elsewhere. Since 1905 the owner of a pharmacy has been legally obliged to have over his pharmacy a sign *Pharmacie-Apotheke*. During a recent visit, however, I saw several pharmacies bearing only the title *Pharmacie*. Reasons for the changes are most probably fluctuations in the influence over Luxembourg of her powerful neighbours. The present position represents a reasonable compromise. The official society is called the *Syndicat des Pharmaciens Luxembourgeois*.

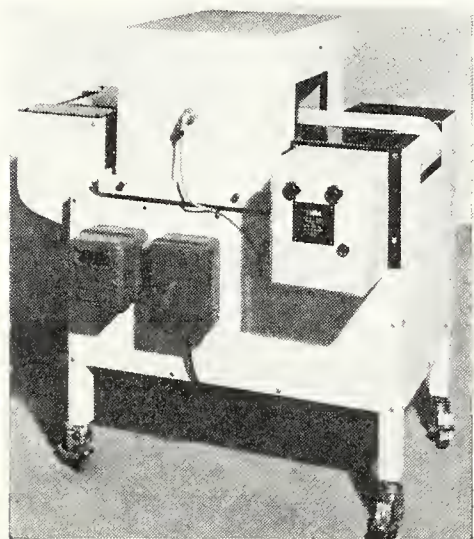


I am grateful to Pharmacien A Nimex for information about pharmaceutical titles in Luxembourg, and for the photograph.

MACHINERY AND PLANT

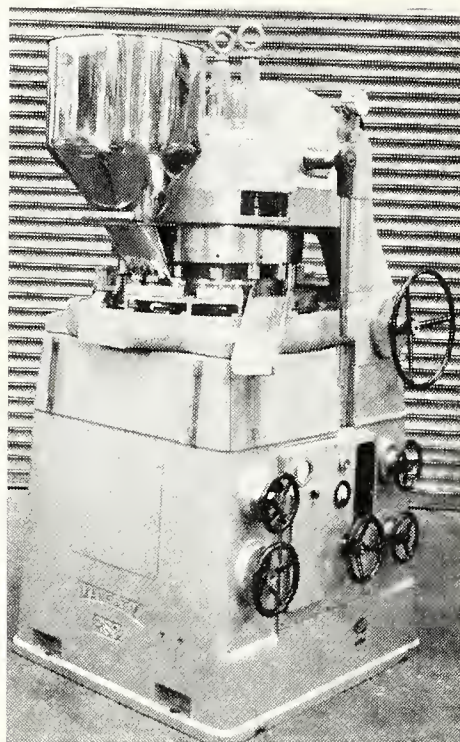
Versatile in Action.—Newman Labeling Machines, Ltd., 25 Queens Road, Barnet, Herts., offer the Newman automatic cap tightening machine that will accommodate caps 6-100 mm. diameter and containers varying between 2-12 in. high. The company point out that the machine may be fed spasmodically and can cope with a wide variety of container shapes at varying speeds.

Metal Detector.—A new Loma metal detector, model 2F designed to meet the need for a detector capable of indicating ferrous inclusions through packaging made of non-ferrous metals, is available from Newell Dunford Engin-



earing, Ltd., 143 Maple Road, Surbiton, Surrey. The unit detects such ferromagnetic metal content at speeds of 10-600 ft./min. and may be used to operate a reject device, stop the conveyor or energise an alarm.

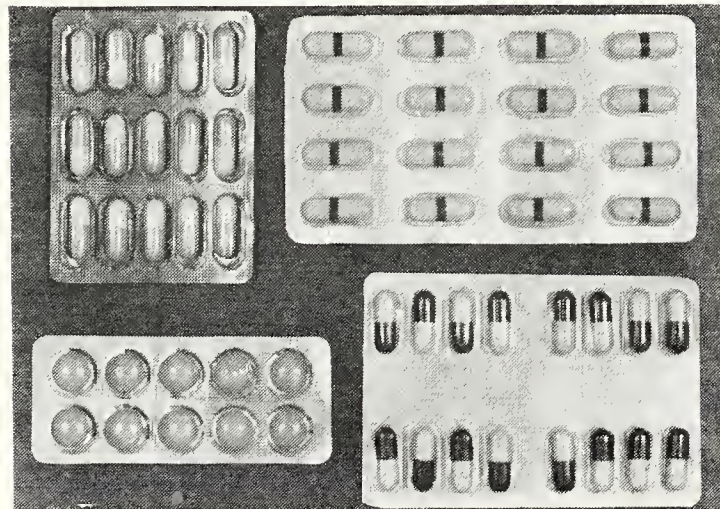
Heavy-duty Tablet Press.—The RS3 tablet machine introduced by Manesty Machines, Ltd., Speke, Liverpool, 24, is a modern heavy-duty rotary model of advanced design and rigid construction. It is available in two versions. A model of 15 tons total capacity is spring-operated. The second model, which is of 20-ton total capacity, is pneumatically preloaded. Maximum-diameter pellet obtained from the press is determined by the number of stations in the turret. The standard twenty-one station model, for instance, has a maximum diameter of $1\frac{1}{8}$ in.,



whilst in a fourteen-station model the maximum diameter is increased to $2\frac{1}{4}$ in. Both models have a maximum filling depth of $2\frac{1}{2}$ in. In the design thought has been given to providing ready accessibility for cleaning, tool-changing and maintenance. The controls have been logically grouped for simplicity of operation and control. An RS3 machine in the company's experimental department is available for trials.

Film Coating of Tablets.—The new Accela Cota machine of the Manesty Machines, Ltd., Speke, Liverpool, 24, embodies what is claimed a new concept in coating-pan design, making it possible to turn out a product of improved quality at less labour cost. That result is achieved by careful control of air flow and horizontal orientation of the pan.

In the pan, which is perforated peripherally, all the tablet surfaces are exposed equally to the moving airstream and dead spaces and pockets of turbulence are eliminated. The design also permits rapid and effective cleaning. Model 24 a 24-in. stainless-steel pan, working capacity about 12 kilos, is intended for development work on small batch production; production model 48 has an approximate working capacity of 70 kilos.



AUTOMATICALLY THERMO-FORMED "BLISTER" PACKS: Examples of tablet and capsule "blister" packs made with Masterpacker CC64 machine of Soag Packaging.

Press-through Pack Tablet Machine.—Soag Packaging, Transport Avenue, Brentford, Middlesex, have introduced a simplified and lower priced "junior" version of their Masterpacker CC64 machine for the automatic thermo-forming and filling of tablet and capsule "blister" packs. Intended for medium to large-scale production, the machine can handle all types and sizes of compressed tablets, sugar coated tablets, dragées and capsules. Its operation is entirely automatic. The PVC material is reeled into "blister" formers. The products are fed from hoppers that incorporate a brushing device, thus ensuring a smooth, constant feed into the "blister." A foil or other suitable heatseal or coldseal material completes the pack.

EXPANSION PROJECTS

PLANS are in hand for increased production by British Celanese, Ltd. (a member of the Courtaulds group) of their Diketene plant at Little Heath, Coventry. The present expansion, due to come into operation in April will increase capacity by four times that of the original plant. Diketene is used in the manufacture of a wide range of pharmaceuticals and dyes, etc.

COINCIDING with the fiftieth anniversary of their foundation, T. Giusti & Son, Ltd., makers of stainless steel plant for the pharmaceutical, cosmetic and other industries, recently opened an extension to their offices and production facilities at York Way, London, N.7. The anniversary was also marked by the introduction of two of their most successful items of equipment, the Yorkway and the Universal Yorkway series of processing vessels both of which are based on standard designs but can be varied considerably to suit user's requirements for heating, mixing, emulsifying, cooling, and storing process. The Universal Yorkway vessels carry diversification a stage further by the fact that different mixer/scrapper/emulsifier, etc. assemblies can be quickly interchanged in the vessel to provide an almost infinite variety of processing requirements. The company's first activities were the production of automotive and aircraft engine parts and later became interested in refrigeration. The present managing director (Mr. R. B. Giusti, son of the founder) joined the company in 1930-31 and considered that refrigeration had a great future. In 1936 Giusti & Son was incorporated as a limited liability company in association with Joseph Nathan & Co., Ltd. (founder of Glaxo) who acquired 50 per cent. of the company shares. Three years later T. Giusti & Son, Ltd. were literally back to square one, manufacturing aircraft engine parts. By the end of the 1939-45 war the business of Joseph Nathan & Co. had been taken over by Glaxo Laboratories and Mr. T. and Mr. R. B. Giusti rebought the controlling interest in their company. It is Giusti's claim that an item of their stainless steel equipment can be found in almost every country in the world and currently export 30-40 per cent. of their output.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are augmented before wholesale dealers receive the goods into stock.

LONDON, JANUARY 15: Trading continued quiet in all sectors with few important price movements. Cape ALOES, after falling back two weeks ago, became firmer by 5s. per cwt, the Curaçao variety advancing by the same amount. CLOVES were extremely scarce on the spot and no shipment offers were expected from Zanzibar for some time. It is understood that origin have large contracts to fulfil for Indonesia before there will be any supplies for the rest of the world. PEPPER prices fell considerably, due, it was believed, to Continental entrepreneurs. Chinese MENTHOL was reduced by one shilling per lb. and Brazilian by sixpence on the spot. ORRIS ROOT was sold at 470s. per cwt. against an average of 225s. a year ago. KARAYA GUM continued its firmer trend.

Among ESSENTIAL OILS white CAMPHOR continued to ease but Ceylon CITRONELLA was dearer by three halfpence per lb. and LEMONGRASS by one shilling per kilo. Chinese PEPPERMINT was threepence lower for shipment.

There were no changes advised by manufacturers of PHARMACEUTICAL CHEMICALS although it was believed that ASCORBIC ACID would be reduced in the near future.

Pharmaceutical Chemicals

PHENOL.—Ice crystals in bulk, 1s. 4d. per lb. LIQUID, B.P., 1s. 9d. per lb. in 56-lb. returnable tins.

POTASH SULPHURATED.—B.P.C., 1959, 8s. 10d. per kilo in 50 kilo drums.

POTASSIUM ACETATE.—(Per lb.) 1 cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10 cwt., 2s. 6d.

POTASSIUM ACID TARTRATE.—B.P.C. (per 1,000 kilos in bags), 50-kilos, £315; 250-kilos, £310; 1,000-kilos, £301.

POTASSIUM BICARBONATE.—B.P. powder, 110s. per cwt. 1-4 cwt. lots and 105s. per cwt., for 5-cwt. and over.

POTASSIUM CARBONATE.—50-kilo kegs 6s. 7d. per kilo.

POTASSIUM CHLORIDE.—Pure, 50-kilo sacks, 3s. 7½d. per kilo.

POTASSIUM GLUCONATE.—B.P.C., 1-ton lots, 13s. 6d. lb.

POTASSIUM HYDROXIDE.—(Per kilo), Pellets, B.P., 9s. 6d.; sticks, ½-kilo in bottles, 30s. 10d.; technical flake, 4s. 5½d.

POTASSIUM PERMANGANATE.—B.P. in 1-cwt. lots, 2s. 0½d. per lb. Technical, 218s. 6d. per cwt.; 1-ton lots, quoted at 207s. per cwt.

POTASSIUM PHOSPHATE.—B.P.C. 1949, 50-kilo kegs of powder, 9s. 3d. per kilo, GRANULAR, 9s. 4d.

POTASSIUM SULPHATE.—B.P.C. '49, 1s. 2d. per lb.

POTASSIUM THIOCYANATE.—50-kilo lots, 14s. 7d. per kilo in kegs.

SACCHARIN.—B.P. powder, 1 lb. and over 15s. 6d. per lb.; SODIUM SALT, B.P., 14s.

SANTONIN.—5 kilo lots, 374s. kilo.

Crude Drugs

ACONITE.—*Napellus*, 6s. lb. nominal

AGAR.—Kobe No. 1, 18s. 6d. lb., c.i.f.; European, 22s. 6d., duty paid.

ALOES.—(Per cwt.). Cape primes, 315s. spot; 275s., c.i.f.; Curacao, 535s.; 530s., c.i.f.

BALSAMS.—(per lb.). CANADA: 33s. c.i.f. 33s. 6d. to 34s. 6d. spot; COPAIBA: 10s., c.i.f.; 10s. 6d., spot; PERU: 13s. 6d., c.i.f., 14s., spot; TOLU: B.P., 13s.-14s.; genuine as imported, 41s. 6d., c.i.f.

BELLADONNA.—LEAVES, 3s. 8d. lb., spot; 3s. 6d., c.i.f.; HERB, 2s. 6d. and 1s. 10d., c.i.f.; ROOT, 1s. 11d. spot, 1s. 10d., c.i.f.

BENZONIN.—B.P.C., SPOT, £25 to £42 per cwt.

BUCHU.—LEAVES, spot, 21s. lb.; 19s. 6d., c.i.f.

CALUMBA.—Spot, 130s. cwt.; 120s., c.i.f.

CAMPHOR.—B.P. powder, 42s. kilo; 38s. c.i.f.

CARDAMOMS.—(per lb.) Alleppy greens, 20s. 6d., c.i.f.; prime seed, 30s. 6d., c.i.f.

CASCARA.—Spot, 310s. cwt.; 290s., c.i.f.

CASSIA.—*Lignea*, whole, 500s. cwt., duty paid, nominal; 420s., c.i.f.

CHERRY BARK.—Thin natural, 3s. 2d. lb., spot; 2s. 11d., c.i.f.

CHILLIES.—Zanzibar, 350s. cwt. spot.

CINNAMON.—Seychelles bark, 460s. cwt. spot; 425s., c.i.f. Ceylon quills per lb., c.i.f., five 0's, 10s.; four 0's, 9s. 6d.; three 0's, 9s. 4½d.; quillings, 6s. 1d.; chips, 2s. 8d.

CLOVES.—Zanzibar, 9s. 6d. lb. spot,

COCHINEAL.—(Per lb.) Canary Isles silver-grey, spot nominal; 37s. 6d., c.i.f., black brilliant, 39s. 6d., nominal; 39s. 6d., c.i.f. Peruvian silver-grey, 34s., c.i.f. nominal.

COCILLANA.—Bark, 3s. 6d. lb., spot; 3s. 3d., c.i.f.

COLOCYNTH PULP.—Spot and c.i.f., 4s. 6d. lb.

CUBEBS.—Spot quoted at 285s. cwt.

DANDELION.—Root, 420s. cwt. spot and c.i.f.

ERGOT.—Portuguese—Spanish, 8s. 3d. lb.; 7s. 9d., c.i.f.

GENTIAN.—Spot, 310s., cwt.; 305s., c.i.f., nominal.

GINGER.—(Per cwt.)—Sierra Leone, 200s., spot; Cochin new crop, 310s., c.i.f. Jamaican No. 3, 360s. spot; Nigerian split, 160s.; spot; peeled, 165s.

GUM ACACIA.—Kordofan cleaned sorts, 245s. cwt., spot; 232s., c.i.f.

HONEY.—(per cwt. ex store). Australian light amber, 150s.; medium amber, 137s. 6d. Argentinian 150s.; Canadian, 180s.; Mexican, 135s.; Chinese, 122s. 6d.

HYDRASTIS.—35s. 6d. lb.; 34s. 6d., c.i.f.

HYOSCYAMUS.—*Niger*, 2s. lb.; 1s. 10d., c.i.f.

IPECACUANHA.—(Per lb.). Matto Grosso, 50s. spot; 47s. 6d., c.i.f. Jan.-Feb.; Costa Rican, 61s. spot; 56s., c.i.f. March-April. Colombian, 52s. 6d., spot, nominal.

JALAP.—Mexican, 6s. 3d. lb. spot; 6s., c.i.f. Brazilian, 2s. 3d. nominal; 2s., c.i.f.

KARAYA.—No. 2 f.a.q. gum, 385s. cwt., spot; 325s., c.i.f.

KOLA NUTS.—West African halves, 8½d. lb.; afloat, 8d., c.i.f.

LANOLIN.—ANHYDROUS, B.P., is quoted from 5s. 5d. to 6s. 0½d. kilo as to grade in 1-ton lots delivered free drums. Cosmetic grade, 6s. 5d.

LEMON PEEL.—Spot and c.i.f., 2s. 9d. lb., nominal.

LIQUORICE.—ROOT, Russian, 85s. cwt.; BLOCK JUICE, Anatolian, 250s. per cwt.

LOBELIA.—(lb.) Dutch, new crop, 4s. 2d., c.i.f.; 4s. 4d., spot. American, 12s. 9d., c.i.f.; 13s., spot.

LYCOPodium.—Spot, 50s. lb. nominal.

MACE.—Grenada No. 1, 9s. 6d. lb., spot.

MERCURY.—Spot, £223 per flask of 76 lb. ex warehouse.

MENTHOL.—(lb.). Chinese, 34s. 6d., spot, shipment, 32s., c.i.f. Brazilian, 28s.; spot, 26s. 3d., c.i.f.

NUTMEGS.—(Per lb., c.i.f.) West Indian, 80's, 6s. 4d.; assorted, 5s. 4d., defectives,

3s. 9d. East Indian, 80's, 5s. 9d.; 110's, 4s. 10½d. b.w.p., 3s. 5½d.

NUX VOMICA.—Shipment, 110s. cwt., c.i.f.

ORRIS.—Florentine, 520s. cwt., c. and f.

PEPPER.—(per lb.) Sarawak white, 2s. 8½d. on spot; 2s. 8d., c.i.f.; black, 2s. 4½d., spot; 2s. 2½d., c.i.f. Brazilian, 2s. 5d. spot.

PIMENTO.—Shipment, 694s. cwt., c.i.f.

PODOPHYLLUM.—*Emodi*, 320s. cwt. nominal spot and c.i.f.

QUILLAIA.—255s. cwt., spot; 210s., c.i.f.

RHUBARB.—Various grades offered at from 9s. to 25s. per lb. spot.

SAFFRON.—Mancha superior, 700s. per lb.

SARSAPARILLA.—Jamaican, 4s. 4d. lb. nominal; no c.i.f. offers.

SEEDS.—(Per cwt.)—ANISE.—China star, unselected, 280s., duty paid. CARAWAY.—Dutch, 270s., spot. CORIANDER.—Moroccan, 67s. 6d., spot; shipment dearer at 68s., c.i.f. Rumanian split, 65s., duty paid. CUMIN.—Iranian, 155s., duty paid; 135s., c.i.f. CELERY.—Indian, 345s., c.i.f. DILL.—Indian, 160s., nominal spot; Chinese, 120s., duty paid. FENNEL.—Chinese, 115s., duty paid; 97s. 6d., c.i.f. FENUGREEK.—Moroccan, 72s. 6d., duty paid; shipment, 57s., c.i.f. MUSTARD.—English, 70s. to 105s. as to quality.

SENEGA.—Canadian, spot, 29s. 9d. lb.; 29s. 6d., c.i.f. Japanese, 26s. in bond; Jan.-March shipment, 23s., c.i.f.

SENNA.—(Per lb.) Tinnevely LEAVES spot; Prime No. 1, 2s. 2d.; No. 3, f.a.q., 1s. 4d.; shipment, No. 3, 1s. 2d., c.i.f. PODS: Tinnevely hand-picked, spot, 2s. 2d.; manufacturing, 1s. 9d. Alexandria hand-picked, 5s. to 7s. as to grade; manufacturing forward, 2s. 3d., c.i.f.; spot, 2s. 4d.

SQUILL.—WHITE, 190s., cwt.; 180s., c.i.f.

STYRAX.—Spot, 21s.; 20s. 6d., c.i.f.

TONQUIN BEANS.—Para, 9s. lb., c.i.f. (10s. spot); Angostura seconds, 7s. landed.

TRAGACANTH.—No. 1, £285 cwt.; No. 2, £265 spot.

TURMERIC.—Madras finger, spot, 260s. cwt.; new-crop (March-April), 190s., c.i.f.

VALERIAN ROOT.—Indian, 350s. cwt. spot; 340s., c.i.f.; Continental, 400s.; 385s., c.i.f.

WAXES.—(Per cwt.) Bees', Dar-es-Salaam, 840s., c.i.f. CANDELLIA, 550s., spot. CARNAUBA, fatty grey, 335s.; 312s. 6d., c.i.f.; prime yellow, 465s.; 425s., c.i.f.

WITCH HAZEL LEAVES.—4s. 4d. lb., spot; 4s. 1d., c.i.f.

Essential Oils

CAMPHOR, WHITE.—Spot, 9s. 6d. kilo, duty paid; 7s., c.i.f.

CITRONELLA.—Ceylon, 7s. per lb. spot, 6s. 8d., c.i.f.; Formosan, 6s., in bond; 6s. 6d., c.i.f.; Chinese, 5s. 1d., in bond; 5s. 1d., c.i.f.

LEMON.—Sicilian, 44s. to 50s. lb.

LEMONGRASS.—Spot, 58s. 6d. kilo; 62s. 6d. c.i.f.

PEPPERMINT.—(Per lb.) *Arvensis*: Chinese, 10s., spot; 9s. 3d., c.i.f. Brazilian, 9s. 9d., spot; 9s. 3d., c.i.f. (Jan.-Feb.). American *Piperita*, 40s. to 60s.; Italian, 95s.

UNITED STATES REPORT

NEW YORK, JANUARY 14: The Spanish oils, ROSEMARY and LAVENDER SPIKE remained steady despite increased forecasts as a result of reported bad crops. SAFFRON was easier at between \$95 and \$100 lb. CANADA BALSAM was nominal with stocks small. CANANGA OIL was firm with rectified at \$3.50-\$5.25 lb.

WORLD TRADE

U.S. Interest in Ghana Plant.—The Ghana Government has signed an agreement with Calbiochem of California for the operation and management of a pharmaceutical plant at Kwabenya, near Accra. At Tema a plant is being erected for the extraction of fish oil for pharmaceutical purposes.

New Extraction Plant For Brazil.—Merck Maranha Produtos Vegetais is installing a plant at Sao Luis, Maranhao, Brazil, for the extraction of alkaloids and for the production and sale of chemical and vegetable products. E. Merck, Darmstadt, West Germany, is providing technical assistance.

Italian Chemical Interest in Russia.—The Italian chemical company, Montecatini-Edison, which has an agreement with the Soviet Committee for Science and Technology on co-operation in the development of the chemical industry, has opened a permanent office in Moscow. Earlier, Montecatini-Edison won big Soviet orders for the delivery of several enterprises to manufacture chemical products. One of them is to be built in Kirovakan, Armenia, in 1969-70.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

"Trade Marks Journal,"

December 27, 1968. No. 4713

- ALBERT (device), 915,604, by Chemische Werke Albert, Wiesbaden-Biebrich, Germany. For pharmaceutical, veterinary and sanitary substances, medical and surgical plasters; material prepared for bandaging; material for stopping teeth, dental wax; and disinfectants (5)
- S'CUSE ME, 920,850, by INTEC Proprietaries, Ltd., Morden, Surrey. For pharmaceutical preparations and substances for human and veterinary use; medicated bath preparations; sanitary substances; sanitary articles; disinfectants, deodorants and anti-perspirants (5)
- MOTHERCARE, B921,012, by Mothercare, Ltd., Watford, Herts. For pharmaceutical, medicated and sanitary preparations and substances, all for infants; and infants' foods (5)
- FACE-SAVERS, B921,248, by Sterwin, A.G., Zug, Switzerland. For medicated preparations for facial application (5)
- DUOVAC, 921,462, by Hoechst Pharmaceuticals, Ltd., Brentford, Middlesex. For vaccines and sera, all for veterinary use (5)
- CATOPAR, 922,190, by Wellcome Foundation, Ltd., N.W.1. For pharmaceutical preparations for human use (5)
- AMINOGRAN, 924,576, by Allen & Hanburys, Ltd., London, E.2. For pharmaceutical preparations and substances; and infants', invalids' and dietetic foods; all containing anines (5)
- KHK (device), 924,997, by Kyowa Hakko Kogyo, K.K., Tokyo, Japan. For pharmaceutical preparations and substances for human and veterinary use; disinfectants, sanitary substances; infants' and invalids' foods; preparations for killing weeds and destroying vermin, insecticides, acaricides, fungicides, bactericides and larvicides, all for agricultural and horticultural purposes (5)
- OTOSEPTIL, 925,178, by H. R. Napp, Ltd., North Watford, Herts. For pharmaceutical, veterinary and sanitary preparations and substances (5)
- PROTECTAIR, B925,503, by Romney Cosmetics, Ltd., Sandwich, Kent. For air freshening preparations, deodorants, anti-perspirants, disinfectants, sanitary substances, germicides, bactericides and insecticides (5)

MASTALONE, 921,651, by Chas. Pfizer & Co., Inc., New York, U.S.A. For pharmaceutical and veterinary preparations and substances (5)

M (device), 928,185, by Beecham Veterinary Products, Brentford, Middlesex. For all goods (5)

SPIRATONE, 927,452, by Dixons Photographic, Ltd., Edgware, Middlesex. For photographic, cinematographic and optical apparatus and instruments and parts and fittings (9)

DISCON, 916,455, by Charles S. Bullen, Ltd., Liverpool, 3. For surgical and orthopaedic supports; and parts and fittings (10)

SUBA SEAL EASYFLOW (device), 928,027, by William Freeman & Co., Ltd., Barnsley, Yorks. For surgical, dental and medical apparatus and instruments; bottles and containers, all for feeding purposes; teats and valves, all for feeding bottles; and soothers and teething rings, all for babies (10)

"Trade Marks Journal," January 1, No. 4714

CHANEL, B921,775, by Chanel, Ltd., Croydon, Surrey. For chemical products for use in the manufacture of perfumes, toilet preparations, cosmetics and soaps (1)

COMMANDER, 913,428, by Cuticura Laboratories, Ltd., Maidenhead, Berks. For non-medicated preparations for the care of the skin; cosmetics; non-medicated toilet preparations; perfumes; essential oils; and preparations for the hair; but not including talcum powders (3)

COUNTESS MARA, B914,888, by Countess Mara, Inc., New York, U.S.A. For cosmetics, non-medicated toilet preparations and toilet soap (3)

SMILE, 923,166-67, by Procter and Gamble, Ltd., Garsforth, Newcastle-on-Tyne. For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles, sachets for use in waving the hair, shampoos, soaps and essential oils; and non-medicated mouthwashes (3) and for medicated mouthwashes (5)

MIJEX, 912,885, by J. Pickles (Harrogate), Ltd., Knaresborough, Yorks. For preparations for personal use in repelling midges (5)

ABAMUL, 916,781, by Riker Laboratories, Loughborough, Leics. For pharmaceutical and medicinal preparations (5)

ESKAFURAN, 919,399, by Smith, Kline & French Laboratories, Ltd., Welwyn Garden City, Herts. For pharmaceutical, veterinary and sanitary preparations and substances, all being derivatives of furan (5)

SONOGL, 919,912, by Roche Products, Ltd., Welwyn Garden City, Herts. For chemical preparations in gel form for application to the skin, for use with medical diagnostic apparatus (5)

NORIDAY, 922,437, by Syntex Corporation, Panama. For steroid hormone preparations for gynaecological use (5)

LANNATE, 922,685, by E. I. du Pont de Nemours & Co., Wilmington, Delaware, U.S.A. For nematocides (5)

MONOSAN, 922,789, by Hoechst Pharmaceuticals, Ltd., Brentford, Middlesex. For vaccines and sera, all for veterinary use (5)

DISTOMEX, 924,146, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts. For veterinary and anthelmintic preparations (5)

SUBA-TABS, 924,490, by William Freeman & Co., Ltd., Staincross, Barnsley, Yorks. For preparations in tablet form for sterilising articles used in the care of babies (5)

TIBUTOL, 924,892, by Bracco Industria Chimica, S.p.A., Milan, Italy. For pharmaceutical, veterinary and sanitary preparations and substances (5)

SYNHUMON, 925,276, by Crookes Laboratories, Ltd., Basingstoke, Hants. For pharmaceutical preparations containing hormones (5)

ALMEVAX, 929,121, by Wellcome Foundation, Ltd., London, N.W.1. For pharmaceutical, medical, veterinary and sanitary preparations and substances (5)

SCHICK, B918,711, by Schick Electric, Inc., Lancaster, Pennsylvania, U.S.A. For brushes; and receptacles and baths; all for cleaning hair-dressing and shaving appliances; and

containers for hairdressing and shaving appliances (21)

OPTREX, 930,300, by Optrex, Ltd., Perivale, Greenford, Middlesex. For combs, and sponges; brushes, etc.; all being goods for sale in the United Kingdom (21)

"Trade Marks Journal," January 8, No. 4715

INTERDENS, 924,899, by Dr. Wolman, G.m.b.H., Baden-Baden, Germany. For chemical products for use in agriculture, horticulture and forestry; etc. (1)

SUGAMATE, 925,714, by Wellcome Foundation, Ltd., London, N.W.1. For artificial sweetening agents (1)

MINIFOS, B925,928, by Fisons, Ltd., Felixstowe, Suffolk. For chemical products for use in science and photography; chemical products for use in agriculture, horticulture and forestry, etc., all containing phosphorus or compounds of phosphorus (1)

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," January 1

4-Trifluoromethyl-aniline and its use as a herbicidal agent. Farbenfabriken Bayer, A.G. 1,142,539.

Process for preparing a piperazine salt of 1,2, diphenyl-4n-butyl-3,5-dioxo-pyrazolidine. Soc. d'Etudes et de Realisations Scientifiques Seresci, S.p.a. 1,142,545.

Substituted, biologically-active s-triazines and the preparation thereof. Deutsche Gold-und Silber-Scheideanstalt, 1,142,546.

6-Basic substituted morphanthridines and process for the preparation thereof. Dr. A. Wander, S.A. 1,142,596.

Ketozime ethers. Koninklijke Pharmaceutische Fabrieken, N.V. 1,142,610.

Cyano-acetals and their use in benzylpyrimidine synthesis. Wellcome Foundation, Ltd. (Burroughs Wellcome & Co. (U.S.A.), Inc.) 1,142,654.

Hydroxy-methyl-3-oxo-2-oxa-steroids and process for their manufacture. CIBA, Ltd. 1,142,699.

p-Alkoxy-piperidine-amides. C. F. Boehringer & Soehne, G.m.b.H. 1,142,710.

Therapeutic compositions. Carter-Wallace, Inc. 1,142,757.

Process for the preparation of phenothiazine derivatives. Rhone-Poulenc, S.A. 1,142,760.

Ketoamines and compositions containing them. Wellcome Foundation, Ltd. (Burroughs Wellcome & Co. (U.S.A.), Inc.) 1,142,782.

Medicaments based on avocado oil and/or soya oil. Laboratoires Pharmascience. 1,142,804.

Apparatus for arranging ampoules in an orderly manner. H. Tatibana. 1,142,830.

Production of acetic acid. BP Chemicals (U.K.), Ltd. 1,142,897.

Safety closure for bottles and like containers. S. Roberts and J. D. Rankin. 1,142,907.

Phenylisopropylamine derivatives. Chinoin Gyogyszeres Vegyeszeti Termek Gyara Rt. 1,142,981.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C.2, from February 17.

NEW COMPANIES

P.C.=Private Company. R.O.=Registered Office.

CARTER PENGUIN GROUP, LTD. (P.C.). Capital: £100—To carry on the business of manufacturers of and dealers in pharmaceuticals, chemicals, medicines, etc. Solicitors: Clifford-Turner & Co., 11 Old Jewry, London, E.C.2.

GERMAINE MONTEIL (U.K.), LTD. (P.C.).—Capital: £100. To manufacture and deal in perfumes, etc. Directors: Guy W. Bjorkman, David B. Starr and Morton Kammerman, all of New York, U.S.A. R.O.: 2 Old Bond Street, London, W.1.

TOTAL MALE, LTD. (P.C.).—Capital £100. To carry on the business of chemists and druggists, etc. Subscribers: Leonard H. Lewis and Francis A. Dean, 12 Norfolk Street, London, W.C.2.

Grow fat on Sweetex

There's a very good reason why Sweetex sales in the independent chemist have nearly trebled over the past year. Sweetex is the leading artificial sweetener that costs no more to use than sugar.

So when people want to lose weight, they don't have to lose money too. This year Sweetex sales will be putting on even more weight. Will yours?

SWEETEX

Lenbrook Laboratories Ltd., Thane Road West,
Nottingham. Telephone: 56111



Advertiser's Announcement

THE GREAT HOME-BREWING BOOM!

To-day, undoubtedly, thousands of people are discovering in their leisure time the pleasure of one of the most exciting and rewarding hobbies — HOME BREWING. It is exciting because something is created, rewarding because one can provide for oneself and friends a great variety of beers or stouts at VERY LOW COST.

Many low priced books are available on the subject of home brewing, a magazine is also published monthly called the "Amateur Winemaker" all of which provide useful information. Many towns and villages support their own home winemaking or brewing circles where expertise is exchanged on friendly social occasions, many local authorities even include evening classes in their programme. All these are creating wider interests.

This creative interest is exciting, providing a challenge to produce a really enjoyable "end-product." The second reason for its tremendous popularity is no doubt the REWARD. Any alcoholic beverage in this country carries by far the greater part of its cost in excise duty to fill the government coffers and which year by year require more and more. Within 30 months the excise duty has in fact risen by over 28 per cent. A pint at night at 2s. on average will run up over £36 in the course of a year and what is a pint. From time to time figures are released on beer consumption and although the U.K. is by no means at the top of the ladder, one can imagine the astronomical figure collected in excise duty. Home-brewing is thus truly rewarding

as it offers the same enjoyment at about a quarter of the cost.

The Legality — one may produce as much wine or beer as you like at home — but not a drop of it must be sold.

The quality — the impact of science has produced a revolution that has made it possible to brew a beer or stout of excellent quality without great difficulty providing one uses reliable quality ingredients and follow its manufacturers instructions.

The knowledge required — to-day virtually nil, a beginner can start at once working on basic principles, the main point to remember is "cleanliness" throughout the processes.

The equipment needed — very little as most utensils can be found in any kitchen, a large pan preferably enamel or stainless steel, a wooden spoon, a plastic sieve, a funnel, some filter cloth — one may have to buy a plastic bucket to act as a fermenting vessel, six feet of rubber tubing for syphoning and a few large bottles of $\frac{1}{2}$ to 1 gallon capacity to rack the fermented wort, the total cost less than £1. After the first experiment one may wish to go further into the mysteries of home brewing — a thermometer to ensure correct temperatures — a hydrometer to follow the process and assess the best time to bottle and work out the alcohol content, again at a cost less than twenty shillings.

What is available for the home brewer? Undoubtedly the foremost in the field are CARTER'S of SHIPLEY

with their HOME BREW KITS, these are the most complete on the market providing everything except sugar. Each kit contains Malt, Hops, Malt Extract, Glucose, Yeast & Nutrient, Beer Finings, Sterilising Compound, Liquorice and Black Malt for Stout — yes — even the labels to label one's own bottles. The instructions printed on each kit are easy to follow and extremely thorough and additional hints are provided pictorially on a separate leaflet inside. Kits for Beer or Stout are available in 20 pint sizes or Economy 80 pint sizes.



Carters latest packs of home brewing ingredients available to the trade.

For those who prefer to have the ingredients separately CARTER'S of SHIPLEY again have available the following first class products:—

GRAIN MALTS	Pale, Crystal, Black, etc.
MALT EXTRACTS	Pale or Dark in 1, 2½, 7 or 14 lbs.
MALT EXTRACTS & HOP EXTRACTS	Pale or Dark packed as above.
KENT HOPS	Loose or prepacked '67 or '68 crops.
GLENZYME YEAST	top quality fermentation yeast.
CAMPDEN TABLETS	for preserving and sterilising.

and many other home-brewing needs.

JOIN THE
"HOME-BREW" SET
WITH

Carters' of Shipley

FULL DETAILS WILL BE SENT
PROMPTLY AT REQUEST.



Carters' Home-Brew Kits for Beer and Stout in 20 pint sizes and handy 80 pint ECONOMY KITS, providing all the needs of the home-brewer except sugar.

STOP PRESS

New 8 page descriptive leaflet on Home Brewing for free Counter distribution available shortly—Write for supplies now.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, January 20

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Green room, Continental hotel, Plymouth, at 7.30 p.m. Demonstration arranged by Yardley of London, Ltd.

RETAIL ALLIANCE, Assembly Hall, Society of Friends, Dr. Johnson House, Colmore, Birmingham, 4, at 7.45 p.m. Decimalisation meeting.

SOUTHEAST-ON-SEA BRANCH, NATIONAL PHARMACEUTICAL UNION, Runnymede hall, Benfleet, at 8 p.m. Speaker Mr. E. J. Downing (secretary, Pharmacy Assistants Training Board, and assistant secretary of N.P.U.).

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Visit to planetarium at South Shields Marine and Technical College at 7.30 p.m.

Tuesday, January 21

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY, Norbreck Hydro, Blackpool, at 8 p.m. Address by Mr. A. Howells (president of the Society).

CARDIFF BRANCH, NATIONAL PHARMACEUTICAL UNION, Park hotel, Cardiff, at 8 p.m. Mr. K. R. Bloxham (National Cash Register Co., Ltd.) on "An Introduction to the New Decimal Currency."

LEICESTER AND LEICESTERSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Postgraduate medical centre, New Bridge Street, Leicester, at 7.45 p.m. Dr. J. H. Richards (senior lecturer in pharmacology, Leicester School of Pharmacy) on "The Relation of Dose Forms to Therapeutic Efficiency."

ROYAL INSTITUTE OF CHEMISTRY AND CHEMISTRY SOCIETY, Chemistry department, University of Essex, Colchester, at 4.30 p.m. Dr. J. A. Stock (Chester Beatty Research Institute) on "Some Aspects of the Chemotherapy of Cancer."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, and local medical, dental and optical organisations, Royal Victoria hotel, Sheffield, at 8 p.m. Professor A. H. Beckett on "Problem of Dope in Society and Sport and Some Methods for its Control."

THANET BRANCH, PHARMACEUTICAL SOCIETY, Endcliffe hotel, Cliftonville, at 7.45 p.m. Speaker from Max Factor, Hollywood and London (Sales), Ltd.

UNIVERSITY OF LONDON, Institute of Child Health, Guilford Street, London, W.C.1, at 5.30 p.m. Professor D. S. Munro (Sheffield) on "Long-acting Thyroid Stimulator."

WOKING BRANCH, PHARMACEUTICAL SOCIETY, Medical Centre, St. Peter's Hospital, Chertsey, at 8 p.m. Dr. K. R. Fell on "A Pharmacist in Nepal."

WORTHING AND WEST SUSSEX BRANCH, PHARMACEUTICAL SOCIETY, Cricketers hotel, Broadwater, at 8 p.m. Mr. W. A. Page (managing editor, publications department, Photographic Dealers' Association) on "More Photographic Business for the Pharmacist."

Wednesday, January 22

DUNDEE AND EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Queen's hotel, Dundee, at 7.45 p.m. Dinner and dance.

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, Auditorium, Wellcome Building, 183 Euston Road, London, N.W.1, at 7.30 p.m. Mr. D. G. Higgins (technical services section, Imperial Chemical Industries, Ltd.) on "Atherosclerosis—Aspects of Treatment."

MANCHESTER PHARMACEUTICAL ASSOCIATION, Piccadilly hotel, Manchester, at 7.15 p.m. President's evening and annual dinner and dance.

"NEW TRAINS FOR OLD." Exhibition of photographs illustrating the development of the railway system including the latest Hovercraft services, arranged by Kodak, Ltd., in co-operation with the central photographic unit of the British Railways Board. At Kodak House, Kingsway, London, W.C.2, until February 7. Hours: 9 a.m. to 5 p.m. Monday to Friday. Admission free.

OFFICE OF HEALTH ECONOMICS, Imperial Col-

lege of Science and Technology, London, S.W.7, at 6 p.m. Speakers Mr. S. Kipling (managing director, Nicholas Laboratories, Ltd.), and Mr. R. Jones (economist, Innovating Industry Project) on "Marketing Strategies."

RETAIL ALLIANCE, Joshua Taylor & Co., Ltd., Sidney Street, Cambridge, at 7 p.m. Decimalisation meeting.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Top Rank Suite, Southampton, at 7.30 p.m. Annual dinner and dance.

WARRINGTON BRANCH, PHARMACEUTICAL SOCIETY, Feathers hotel, Warrington, at 8 p.m. Dr. R. C. Kaye on "Pharmaceutical Aerosols."

Thursday, January 23

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, University of Aston, Gosta Green, Birmingham, at 7.45 p.m. Dr. M. D. Day on "Anti-hypertensive Drugs." (Refresher course).

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Postgraduate medical centre, Boscombe, at 8 p.m. Dr. E. J. Shellard on "Search for Plants that Heal."

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Dytam Lodge, 16 Clifton Park, Bristol, 8, at 7.30 p.m. Mr. J. H. Peacock on "Problems of Organ Transplantation."

BURNLEY BRANCH, PHARMACEUTICAL SOCIETY, Mackenzie medical centre, Burnley, at 8 p.m. Speaker Mr. A. Medcalf (a member of the National Pharmaceutical Union Executive and secretary, Lancashire Pharmaceutical Committee).

CHEMICAL SOCIETY, Chemistry department, University College, Bangor, at 5.30 p.m. Professor M. Stacey (Birmingham University) on "Polysaccharides and Immunity."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY AND NATIONAL PHARMACEUTICAL UNION, Griffin hotel, Leeds, at 8 p.m. Mr. A. D. Thornton Jones (joint secretary, Joint Formulary Committee) on "B.N.F. 1968 and Metrication."

NORTHUMBRIAN BRANCH, PHARMACEUTICAL SOCIETY AND SUNDERLAND SCHOOL OF PHARMACY, Wearmouth hall, College of Technology, Sunderland, at 8 p.m. Annual quiz.

UNIVERSITY OF LONDON, Institute of Child Health, Guildford Street, London, W.C.1, at 5.30 p.m. Dr. J. W. Black on "Effect of Drugs on the Control of Venous Capacity."

WESTERN PHARMACISTS' ASSOCIATION, Visit to Metropolitan Police forensic laboratories, Richbell Place, London, W.C.1, at 2.30 p.m.

Friday, January 24

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Greyhound hotel, Croydon, at 8 p.m. Dr. Perry (principal medical officer, Brixton Prison) on "Prison Medical Services."

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. C. C. Stevens (member of Council) on "Trade Descriptions Act, 1968."

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Sele Farm School, Hertford, at 8 p.m. Sopexa demonstration.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Portland Building, Nottingham University, at 7.15 p.m. Annual dinner and dance.

Advance Information

DURHAM COUNTY, NORTHUMBRIAN, SUNDERLAND AND TEES-SIDE BRANCHES, PHARMACEUTICAL SOCIETY, Roker hotel, Seaburn, Sunderland, at 8 p.m. on March 21. Professional dinner. Speakers: Mr. A. Howells (president of the Society); Mr. A. Marre (Permanent Under Secretary, Department of Health and Social Security); Professor A. B. Macgregor (chairman, Standing Joint Committee on Classification of Proprietary Preparations), and Mr. J. P. Kerr (a member of Council). Tickets £2 15s. each. Application should be made by February 23 to Mr. A. E. Darling, 6 Whitburn Road, Cleadon, Sunderland.

ELECTROPLAN 69, Campaign by London Electricity Board, 46 New Broad Street, London. E.C.2, aimed at smaller shopkeepers and offices showing how better use of electricity can outweigh the additional cost of the energy. Exhibitions are being held at Surrey Tavern, London, E.11, February 18-20; Bromley Court hotel, Bromley, Kent, March 4-6; York Hall, London, E.2, March 11-13 and the Tavern, Lords cricket ground, April 15-17.

NORTH LONDON PHARMACEUTICAL ASSOCIATION, Quaglino's, Bury Street, London, S.W.1, at 7.30 p.m. on February 13. Annual dinner and dance. Tickets (price £3 5s. each) from Mr. A. J. Edwards, 18 Copenhagen Street, London, N.1.

Course and Conferences

BRITISH INSTITUTE OF MANAGEMENT, One-day conference on "Planning for Decimal Currency," Europa hotel, London, W.1, February 21. Fee £13 13s. for members, £17 17s. for non-members. Details from B.I.M., Management House, Parker Street, London, W.C.2.

FINE CHEMICALS AND PESTICIDES GROUPS, SOCIETY OF CHEMICAL INDUSTRY, School of Pharmacy, Brunswick Square, London, W.C.1, March 31 to April 2. Symposium on veterinary pesticides. Fee: £3 10s., members; £8 10s., non-members. Details from the Assistant Secretary, Society of Chemical Industry, 14 Belgrave Square, London, S.W.1.

HERIOT-WATT UNIVERSITY, Edinburgh, Refresher course in modern dispensing practice, March 17-21. Fee £15. Prospectus from A. W. Patterson, senior lecturer in department of pharmacy, 79 Grassmarket, Edinburgh.

INTERNATIONAL HEALTH CONFERENCE, Edinburgh, September 21-25, 1970. Details from Royal Society of Health, 90 Buckingham Palace Road, London, S.W.1.

INSTITUTE OF PHYSICS AND PHYSICAL SOCIETY, Department of Metallurgy, Imperial College, London, S.W.7, April 14-15. Conference on dynamic experiments in electron optical instruments. Details from the Meetings Officer, Institute of Physics and Physical Society, 47 Belgrave Square, London, S.W.1.

RETAIL TRADES EDUCATION COUNCIL, "Managers as Trainers Courses" have been arranged for the following centres: TOTTENHAM: February 6; BRADFORD, February 12; STOKE-ON-TRENT, February 18; LEICESTER, February 19; BEDEORD, February 25; CAMBRIDGE, March 4; NORWICH, March 5; TORQUAY, March 11; EALING, March 14; SWANSEA, March 20; CARDIFF, March 21; WOOLWICH, March 25; BIRMINGHAM, April 2; BASINGSTOKE, April 10; LINCOLN, April 16; NORTHAMPTON, April 17; BRIGHTON, April 23; CHESTER, April 24; LEEDS, April 29; NEWCASTLE UPON TYNE, April 30; EDINBURGH, May 6; GLASGOW, May 7; NOTTINGHAM, May 13; CREWE, May 14; LIVERPOOL, May 21; MANCHESTER, May 22. The courses have been up-dated in the light of information from the Industrial Training Boards for the Distributive Trades. Fee: £7 10s. Details from Training Development Officer, Retail Trades Education Council, 56 Russell Square, London, W.C.1.

Exhibitions and Fairs

BABY SHOW, Fifth international. Brussels, Belgium, November.

EUROPAK, Twelfth international trade show, Brussels, Belgium, August 31 to September 8.

IRISH PACKAGING EXHIBITION, Royal Dublin Society, Dublin, Eire, September 14-18, 1970. Organisers: Provincial Exhibitions, Ltd.

LABEX INTERNATIONAL, Earls Court, London, S.W.5. The following discussion meetings have been arranged to take place in conjunction with the exhibition: March 25 at 3.45 p.m., computers in the laboratory; March 26 at 11.45 a.m., calibration of volumetric apparatus; at 3.45 p.m., viscosity measurements; March 27 at 11.45 a.m. evaluation of laboratory instruments; at 3.45 p.m., maintenance of laboratory instruments; March 28 at 11.45 a.m., detection of flavour substances in food; 3.45 p.m. microbiological media.

WILLS

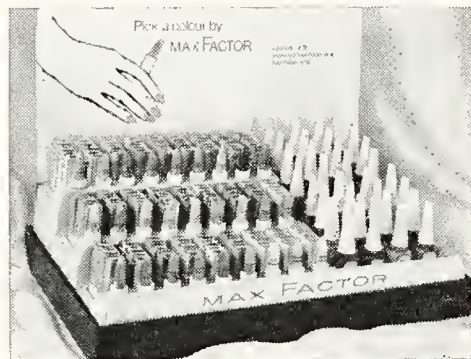
MR. E. T. MOXHAM, M.P.S., 67 Brookvale Road, Southampton, left £12,729 (£10,788 net).

PRINT AND PUBLICITY

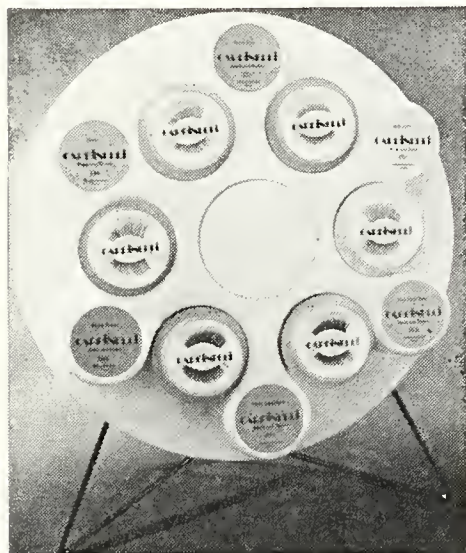
PRESS ADVERTISING

JEYES GROUP, LTD., High Street, London, E.13: Jeves fluid. In *Amateur Gardening*, *Garden News*, *Popular Gardening*, *Practical Gardening*, *Adam the Gardener Annual*.

AYDS, division Cuticura Laboratories, Ltd., Clivemont Road, Cordwallis Trading Estate, Maidenhead, Berks: Ayds. In *Woman's Own*, *Woman's Weekly*, *Woman's Realm*, *Readers' Digest*, *Observer colour supplement* and ten women's monthly magazines.



SCINTILLATING YET COMPACT: A self-selection counter merchandiser designed by Max Factor, Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, to keep continually on view the entire lipstick and nail polish range all reflected in a silvered backcard. Testers for each of the twenty-seven lipstick shades are included, and the wooden tray has a vacuum-formed insert. Prices are clearly shown. Overall measurements are 17½ in. wide, 11 in. deep and 11 in. high.



"AUTO-SELECTOR DISPENSER": Self-service dispenser designed to save time for customers and counter space for the retailer. It comes free with the initial order for twenty-four colour-coded packages of Cardinelli eye lashes from Clarnell, Ltd., Mapplewell, nr. Barnsley, Yorks.

Prescribers' Press

What doctors are reading about developments in drugs and treatments

AN intermittent regimen of antituberculosis treatment has been successfully applied at the Royal Post-graduate Medical School, London. During the first three months of treatment patients received on six days a week 0.75 gm. of streptomycin, 300 mgm. of isoniazid and 12 gm. of PAS. For a further fifteen months they received 1 gm. of streptomycin and 600 mgm. of isoniazid on three alternate days each week. "Excellent" clinical and radiological results, with bacteriologically positive sputa all becoming negative, were achieved in 138 of 140 cases. A main point of the regimen was that drug administration was supervised—the oral drugs were given during attendance for injection, whether at the chest clinic, nursing centre, out-patient department or the patient's place of employment—and the authors conclude that the efficiency was greater than that of unsupervised regimens. Since 100 per cent. arrest of tuberculosis is possible with co-operative patients, they say, less should not be accepted in developed countries (*B.M.J.*, January 11, p. 82).

DEVELOPMENT of resistance to "therapeutic defibrination" with arvin (a purified fraction of the venom of the Malayan pit-viper—see *C. & D.* March 16, 1968, p. 248) is reported from the Royal Post-graduate Medical School, London. Two patients who had previously been treated satisfactorily were found to be refractory to a second course of treatment and they, and two other patients, were found to be resistant to arvin as judged by an *in vitro* test. Resistance appeared to be linked with duration of therapy and use of the intramuscular route during the first

course. The authors recommend use of the intravenous route until more information is available. It is considered likely that resistance is due to the development of antibodies to arvin—which is a potentially antigenic protein (*Lancet*, January 11, p. 79).

DEAFNESS following treatment with ethacrynic acid in five uraemic patients is described by workers at the University of Illinois, Chicago, U.S.A. In three of the patients deafness was permanent. The authors suggest that other drugs should be used first in the condition, ethacrynic acid being reserved for resistant cases. It should be stopped, they say, at the first sign of hearing deficit and should not be then given again for fear of inducing permanent deafness (*Lancet*, January 11, p. 77).

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical publications.

ANOTHER HAZARD OF SMOKING [pregnancy]. *New Scientist*, January 9, p. 64.

VETERINARY PREVENTIVE MEDICINE. Practicality and economics of. *Vet. Rec.*, January 11, p. 26.

TETRAMISOLE. Treatment for lungworm infestation in pigs. *Vet. Rec.*, January 11, p. 44.

CANINE DISTEMPER. Resistance against induced, by measles virus. *Vet. Rec.*, January 11, p. 52.

BRUCELLA. *Vet. Rec.*, January 11, p. 53.

TRICHLOROETHYL STYRENE α -2,2,2-. Selective control of annual grassy weeds in transplanted tropical rice with. *Nature*, January 4, p. 64.

PROTAMINE SULPHATE AND ENVIRONMENTAL TEMPERATURE. Effect of on mouse sarcoma 180. *Nature*, January 4, p. 87.

SODIUM CYCLAMATE. Effects of on the growth of rats compared with other variations in the diet. *Nature*, January 4, p. 91.

TROMETHAMINE. Hepatic injury associated with. *J. Amer. med. Ass.*, January 4, p. 81.

PROTEIN SYNTHESIS. Interference of various antibiotics and other compounds with, in muscle and their influence on metabolic regulation. *Nature*, January 11, p. 188.

ETHACRYNIC ACID. Transient and permanent deafness following treatment with, in renal failure. *Lancet*, January 11, p. 77.

INTERMITTENT CHEMOTHERAPY FOR TUBERCULOSIS in an urban community. *Brit. med. J.*, January 11, p. 82.

NOTES ON NEW MEDICAMENTS

KELFIZINE.—*Chemistry:* 2-sulphanilamido-3-methoxypyrazine. The compound, also known as sulphamethoxyprazine, is chemically related to sulphamethoxypyridazine (Medicel, Lederkyn), and like that drug, it has a prolonged antibacterial action. The long action is due to two factors: degree of plasma binding and rate of renal clearance, and it is stated that only 66 per cent. of a dose of sulphamethoxyprazine is plasma-bound, which is the lowest of all long-acting sulphonamides. Some tubular re-absorption of the unbound drug occurs in the kidneys, giving a biolo-

gical half life of sixty-five hours, which permits an adequate blood level with a small daily dose. The drug is active against a wide range of organisms, and as the acetylated excretion product is highly soluble, there is little likelihood of renal complications due to crystalluria. In common with other long-acting sulphonamides, dermal side effects, although rare, may occasionally occur, and with the slow rate of excretion of the drug, will be correspondingly slow to subside after the treatment of the patient has been discontinued.

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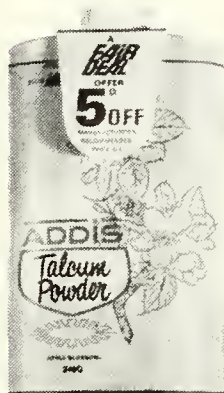
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